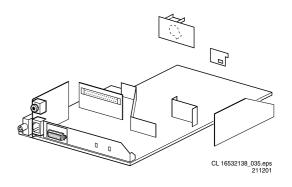


### L01H.2E



## Service Manual

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### 1. Technical Specifications, Connections and Chassis Overview

Note: Described specifications are valid for the *whole* product : NTSC 4.43 (playback

range.

Channel selections : 100 channels : UVSH

IF frequency : 38.9 MHz

IF frequency : 38.9 MHz Aerial input : 75  $\Omega$ , Coax

### 1.1 Technical Specifications

### 1.1.1 Reception

Tuning system : PLL

Colour systems : PAL B/G, D/K, I : SECAM B/G, L/L'

Sound systems : FM/AM mono

: FM stereo (2CS)

: NICAM

: FM radio (10.7 MHz)

A/V connections : PAL BG

: SECAM L/L'

: NTSC 3.58 (playback

only)

### 1.1.2 Miscellaneous

Audio output (RMS) : 1 W mono

: 2 W mono : 4 W mono

only)

: 2 x 3 W stereo

 $\begin{array}{lll} \mbox{Mains voltage} & : & 220 - 240 \ \mbox{V} \ (\pm \ 10 \ \%) \\ \mbox{Mains frequency} & : & 50 \ \mbox{/ } 60 \ \mbox{Hz} \ (\pm \ 5 \ \%) \\ \mbox{Ambient temperature} & : & + 5 \ \mbox{to} \ + 45 \ \mbox{deg}. \ \mbox{C} \end{array}$ 

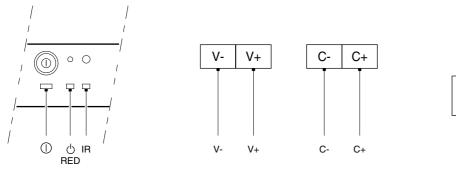
Maximum humidity : 90 % Power consumption : 36 W (14") to

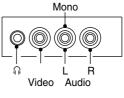
: 52 W (21")

Standby Power consumption : < 3 W

### 1.2 Connections

### 1.2.1 Front Connections and Front Control





CL 16532138\_032.eps 201201

Figure 1-1

 Audio / Video In
 2
 Video
 CVBS (1 Vpp / 75 Ω)
 ⊕⊚

 1
 Headphone
 3.5 mm (8 - 600 Ω / 4 mW)
 3
 Audio
 Mono (0.5 Vrms / 10 kΩ)
 ⊕⊙

### 1.2.2 Rear Connections

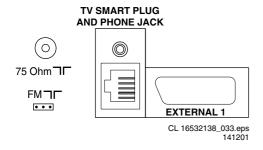


Figure 1-2

### External 1: RGB/YUV in + CVBS in/out

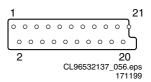
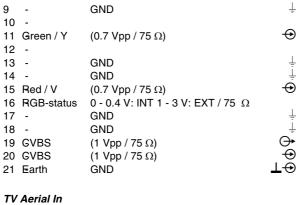


Figure 1-3

9.5 - 12 V: EXT 4:3

1	Audio	R (0.5 Vrms / 1 kΩ)
2	Audio	R (0.5 Vrms / 10 kΩ)
3	Audio	L (0.5 Vrms / 1 kΩ)
4	-	GND
5	-	GND
6	Audio	L (0.5 Vrms / 10 kΩ)
7	Blue / U	(0.7 Vpp / 75 Ω)
В	<b>GVBS-status</b>	0 - 2.0 V: INT
		4.5 - 7 V: EXT 16:9





: 75 Ω, coax (IEC-type) Aerial input

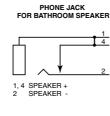
### FM Radio In

Aerial input : via 'coax-to-3 pins'

adapter 'cable' or 'wire' antenna

### TV SMART PLUG

RJ11 CONNECTOR	DESCRIPTION
1	CLOCK
2	DATA IN
3	+5V
4	DATA OUT
5	GND
6	IR DATA



CL 16532138\_011.eps 221101

32 PIN SMART CARD CONNECTOR



PIN		PIN	
1	RESERVE	17	ANALOG BLUE IN
2	GROUND (POWER)	18	ANALOG GREEN IN
3	+12V	19	ANALOG RED IN
4	GROUND (IIC)	20	FAST BLANKING IN
5	IR-DATA	21	GROUND CVBS-OUT
6	POR	22	CVBS-OUT
7	TV-CLOCK	23	AUDIO OUT MONO +
8	DATA-IN	24	RESERVE
9	DATA-OUT	25	AUDIO OUT MONO -
10	+5V	26	GROUND AUDIO IN
11	HORIZONTAL SYNC OUT	27	RIGHT AUDIO OUT
12	VERTICAL SYNC OUT	28	LEFT AUDIO OUT
13	0	29	RIGHT AUDIO IN
14	SCL	30	LEFT AUDIO/MONO IN
4 -			

15 SDA

16 RESERVE

Figure 1-5

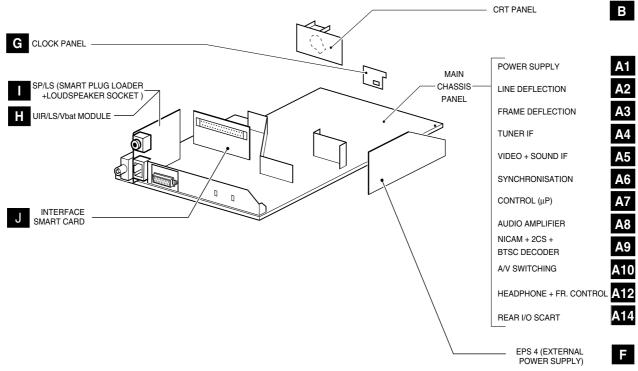
CVBS/Y IN

CL16532138\_028.eps 171201

"C" IN

### Figure 1-4

### 1.3 **Chassis Overview**



CL 16532138\_034.eps 211201

### 2. Safety & Maintenance Instructions, Warnings, and Notes

### 2.1 Safety Instructions For Repairs

Safety regulations require that during a repair:

- Due to the 'hot' parts of this chassis, the set must be connected to the AC power via an isolation transformer.
- Safety components, indicated by the symbol A, should be replaced by components identical to the original ones.
- · When replacing the CRT, safety goggles must be worn.

Safety regulations require that after a repair, the set must be returned in its original condition. Pay particular attention to the following points:

- General repair instruction: as a strict precaution, we advise you to re-solder the solder connections through which the horizontal deflection current is flowing, in particular:
  - all pins of the line output transformer (LOT)
  - fly-back capacitor(s)
  - S-correction capacitor(s)
  - line output transistor
  - pins of the connector with wires to the deflection coil
  - other components through which the deflection current flows

Note: This re-soldering is advised to prevent bad connections due to metal fatigue in solder connections and is therefore only necessary for television sets more than two years old.

- Route the wire trees and EHT cable correctly and secure them with the mounted cable clamps.
- Check the insulation of the AC power cord for external damage.
- Check the strain relief of the AC power cord for proper function, to prevent the cord from touching the CRT, hot components, or heat sinks.
- Check the electrical DC resistance between the AC plug and the secondary side (only for sets that have an isolated power supply). Do this as follows:
  - 1. Unplug the AC power cord and connect a wire between the two pins of the AC plug.
  - Turn on the main power switch (keep the AC power cord unplugged!).
  - 3. Measure the resistance value between the pins of the AC plug and the metal shielding of the tuner or the aerial connection of the set. The reading should be between 4.5 M $\Omega$  and 12 M $\Omega$ .
  - Switch the TV OFF and remove the wire between the two pins of the AC plug.
- Check the cabinet for defects, to prevent the possibility of the customer touching any internal parts.

### 2.2 Maintenance Instructions

It is recommended to have a maintenance inspection carried out by qualified service personnel. The interval depends on the usage conditions:

- When the set is used under normal circumstances, for example in a living room, the recommended interval is three to five years
- When the set is used in an environment with higher dust, grease or moisture levels, for example in a kitchen, the recommended interval is one year.
- The maintenance inspection includes the following actions:
  - 1. Perform the 'general repair instruction' noted above.
  - Clean the power supply and deflection circuitry on the chassis
  - 3. Clean the picture tube panel and the neck of the picture tube

### 2.3 Warnings

 In order to prevent damage to ICs and transistors, avoid all high voltage flashovers. In order to prevent damage to the picture tube, use the method shown in Fig. 2-1, to discharge the picture tube. Use a high voltage probe and a multi-meter (position VDC). Discharge until the meter reading is 0 V (after approx. 30 s).

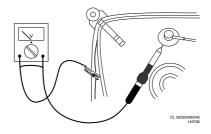


Figure 2-1

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD) . Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this potential. Available ESD protection equipment:
  - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable, and ground cable) 4822 310 10671.
  - Wristband tester 4822 344 13999.
- Together with the deflection unit and any multi-pole unit, flat square picture tubes form an integrated unit. The deflection and the multi-pole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
- Be careful during measurements in the high voltage section and on the picture tube.
- Never replace modules or other components while the unit is switched ON.
- When you align the set, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.

### 2.4 Notes

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (½), or hot ground (♦), depending on the area of circuitry being tested.
- The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a color bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz (PAL) or 61.25 MHz (NTSC, channel 3).
- Where necessary, measure the waveforms and voltages with (¬□) and without (¬□) aerial signal. Measure the voltages in the power supply section both in normal operation (□) and in standby (□). These values are indicated by means of the appropriate symbols.
- The picture tube panel has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
- The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

### 3. **Directions for Use**

# PHILIPS Institutional TV - Instructions for use

## installing the television

- Place your television on a stable and strong base. Leave at least a minimum free space of 5 cm on both sides and 10 cm from the top for sufficient ventilation of the set.
  - Do not cover the ventilation openings with items such as newspapers, cloths, curtains, etc.
- Do not place any flame sources such as lighted Never try repairing the set by yourself; always candles on the television
- splashing and do not place any object filled with Do not expose the television to moisture or contact a qualified technician. liquids on top of the television.

## Environmental

Pay particular attention to the disposal of exhausted recycled and reused by specialised companies. Please find out about local regulations on the Your television contains material that can be disposal of your old television set.

Your television consumes energy in the stand-by

Energy consumption contributes to air and water

We advise you to switch off your television overnight instead of leaving it in stand-by mode

Insert the mains plug into the wall socket and switch on. Please refer to the label on the back of the television for the correct operating voltage. Connecting the mains

## Installing the remote control

- Remove the cover at the back of the remote
- Insert the correct type and size batteries into the compartment making sure they are the right way around.
- You can secure your batteries by fastening an appropriate screw into the hole of the battery

### Note

Clock and wake-up alarm are not available on Pro-Plus sets when television is switched off by mains

## Accessing the Set-up Menu

Set-up Menu may be accessed with a guest remote When the set is in the High Security Mode, the Set-When the set is in the Standard Security Mode the Institutional Set-up Remote Control (RG4172BK). control (like the RC2882) by a sequence of comup menu can be accessed only by a T374AH mands (3 1 9 7 5 3 MUTE).

Submenus can be accessed from menu items with a The current menu item can be selected by means of " symbol pressing the cursor right key the cursor up and cursor down keys.

### Language

The Language function is shown in the Menu as "LANGUAGE", and its valid modes are "ENG-LISH", "DEUTSCH", "FRANCAIS" and "ITALIANO"

## No. of Programs

The overall maximum number of programs is 125. television, PAY-TV Radio and Info programs. This sub menu allows setting the number of

When this menu is open, all the protections are inactive. To exit any menu press Menu button.

Pressing M (Menu button) you may exit the Label

you may enter or exit the label field; pressing the

up/down cursor you may insert alphanumeric

This menu item will be used to add a label/name

for each program. Pressing the left/right buttons

## Teletext Language

This menu enables the user to select the Teletext character set to be used for the selected channel. With cursor left/right you can select a letter

### Video Blank

This item can change between "YES" and "NO"

## activate or deactivate sound mute.

up/down and RADIO up/down are active in menu mode and the television reacts the same way as TELEVISION up/down, INFO up/down, PAY-TV

cursor left/right buttons. These buttons will toggle between all available types: "TV", "INFO", "PAY-

The programme type can be selected with the

Program no.

If the program number of a certain type is 0, the

TV" and "RADIO"

The Clock set-up menu can be entered from this Clock set-up menu item

whether a LED clock display is available or not.

The present program information is stored after pressing the cursor left/right button. Press Menu

to exit without storing.

Fine Tune

**Display (OSD only)**Defines whether the actual time is displayed on

Directions for Use

Using the "control left/right" commands starts fine-

program has a protection or not. With the cursor

This function indicates whether the selected

Protection

left/right keys the protection can toggle between

## This menu item will be used to set the time for the

the function for automatic time downloading by means of Teletext. Teletext Time Download

corresponding to the different language clusters.
"W". Pan European (Latin) / West option
"G". Pan European (Latin) / East option
"G". Arabic
"C". Cyrillic

WEST EU (PAL/SECAM-BG) and EAST EU (PAL/ SECAM-DK), UK (PAL-I), FRANCE (SECAM-L/L').

Digits can be entered for a frequency in MHz. frequency entry the digits not yet entered are

Right cursor starts an auto search; during

Enter "0" for frequencies below 100 MHz.

displayed as dashes

AV2YC (internal interface for system televisions

only), and RADIO.

Possible values are Front End, AV1, AV2 and

source that will be assigned to the program.

The "Input" menu item selects the desired input

GB

## This item can change between "YES" and "NO" to activate or deactivate picture mute.

The Menu items actually displayed depend on

above-mentioned types, always enter two numbers, for example: "01" for TV1 or digit "1" and

up/down cursor.

In order to display a program number of the

corresponding type is not displayed.

**Display Standby (LED only)**This menu item will be used to set the intensity of the clock display when the television is in standby the screen or not.

## Display On (LED only)

This menu item will be used to set the intensity of the clock when the television is in the ON mode.

## Time Setting

This menu item is used to activate or deactivate

3.

This menu item is used to select the channel from which to retrieve the correct time from the Teletext. When this item is selected the television set tunes to the selected program.

This menu item is used to set the offset needed to adjust the time received from the Teletext channel to represent the current time in the current location.

### Brightness

The brightness control contains 63 discrete values from the minimum to maximum setting

### Colour

The colour control contains 63 discrete values from the minimum to maximum setting.

### Contrast

The contrast control contains 63 discrete values from the minimum to maximum setting.

### Sharpness

The sharpness control contains 63 discrete values from the minimum to maximum setting.

## Forced mono (for stereo televisions only)

the stereo feature in stereo sets. Toggle YES, NO This command is used to activate or deactivate using the right/left cursor.

## Balance (for stereo televisions only)

To balance the output sound from TELEVISION's speakers left and right

## Treble (for stereo televisions only)

To set the treble frequencies of sound output from TELEVISION's speakers.

## Bass (for stereo televisions only)

To set the bass frequencies of sound output from television's speakers.

## AVL (Automatic Volume Leveller)

The Automatic Volume Leveller feature is shown as "AVL" in the menu and its valid states are "YES"; "NO"

## Volume Fixed

YES, the volume is fixed at a certain volume, if NO, the volume contains 63 discrete values. The valid toggle states are "YES" and "NO": if

To display volume bar when adjusting volume, select "YES". Select "NO" to hide the bar

## Min Volume

allowed for the television set. Use right/left cursor This item sets the limit for minimum volume to adjust.

### Max Volume

allowed for the television set. Use right/left cursor This item sets the limit for the maximum volume to adjust.

## Switch on Volume

This item sets the television's volume at switch on. Use the right/left cursor to adjust

## **Buzzer Volume**

This item sets the volume of the alarm buzzer. Use the right/left cursor to adjust.

This item sets the television's program at switch Switch On Program

### Power On

behaviour of the television whenever AC Power is The valid states are "FORCED", "STANDARD" The Power On menu function defines the applied.

set-up remote control or by ESP function (Energy switched OFF by means of the main switch or a Saving Programmability controls the maximum continuous viewing time allowed by the control When "FORCED", the television can only be and "STANDBY" system).

When "STANDARD", the television switches on When "STAND-BY", the television always the previous status, ON or Stand-by. switches on in Stand-by.

## Step Tuning (YES/NO)

If YES, TV programs (1 to 9) are tuned immedi-If NO, tuning is performed only after the dash ately when a digit is pressed. disappears.

## Digit Time-out

This is the time-out to enter the second digit for TV program 10 onwards.

Program Display

Auto Scart

Enable/ disable automatic switching to external

Program Display values can be: Number, Label,

In Commercial Mode, the Keyboard Lockout menu

Keyboard Lock

function disables the television's local keyboard

for volume and program control. Free protected programs

With the cursor up/down you can set the message Press cursor left/right to display Welcome Welcome Message, Line 1, and Line 2. Welcome Message message entry menu: Scart source.

## Program Guide

freed. If "free protected programs" is set to "YES",

With this item all protected programs can be

TV program can be selected by relevant digit but

with picture blanked and sound muted.

item is "NO" protected programs are skipped. A

all programs are accessible for the user, if the

"page", the program numbers with the associated This feature will enable/disable in a "list" or

## and its states are "YES": "NO"

This menu function is shown as "REMINDER"

While the set is in the Security Standard Mode the While the set is in the Security High Mode the setremote control by a sequence of commands (3 1 The menu function "SECURITY" allows the user to select one of two states "HIGH" or "STANDup menu can only be accessed by a T374AH Institutional Set-up Remote Control Set-up Menu may be accessed with a guest ARD". The default is "STANDARD" 9753 MUTE)

### characters.

Reminder

The ESP Menu function is shown as "ESP", and its valid values are 00 - 99 (in hours). 00 value

means OFF.

Television remains activated once a Guest has

checked-out.

controls the maximum continuous viewing time It allows the establishment to limit the time the

allowed by the control system.

Energy Saving Programmability Mode (ESP)

Directions for Use

This item is only present in "system" sets and it is used to enable or disable communication with the DCM (Data Communication Module).

## Audio / Video Mute

The Audio/Video Mute menu function determines whether the video should be blanked and the audio should be muted if the currently tuned channel has no signal (Blue, Black, Off).

### 4. Mechanical Instructions

**Note:** Figures below can deviate slightly from the actual situation, due to the different set executions.

### 4.1 Rear Cover Removal

- Remove all (seven) fixation screws of the rear cover: two at the top, two at each side and one near the mains cord holder.
- 2. Now pull the rear cover backward to remove it.

### 4.2 Service Position Main Panel

- 1. Disconnect the strain relief of the Mains cord.
- Remove the main panel, by pushing the two centre clips outward [1]. At the same time, pull the panel away from the CRT [2].
- 3. Disconnect the degaussing coil by removing the cable from (red) connector 0201.
- 4. Move the panel somewhat to the left and flip it 90 degrees [3], with the components towards the CRT.

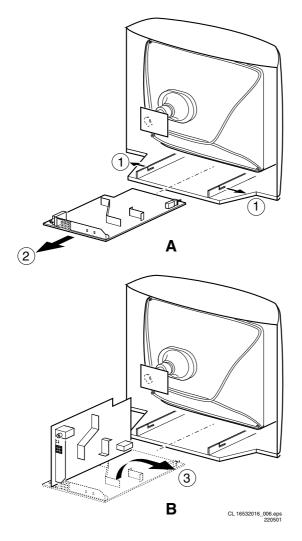


Figure 4-1

### 4.3 Rear Cover Mounting

Before you mount the rear cover:

- Place the mains cord correctly in its guiding brackets (strain relief).
- 2. Place all cables in their original position.

### Service Modes, Error Codes and Fault Finding

### Index:

- Test points.
- Service Modes.
- 3. Problems and Solving Tips (related to CSM).

L01H.2E

- Error Buffer.
- The Blinking LED Procedure. 5.
- 6. Protections.
- 7. Repair Tips.

### 5.1 **Test Points**

The chassis is equipped with test points printed on the circuit board assemblies. These test points refer to the functional blocks:

### Table 5-1

TEST POINT OVERVIEW L01			
Test point	Circuit	Diagram	
A1-A2-A3	Audio processing	A8, A9 / A11	
C1-C2-C3	Control	A7	
F1-F2-F3	Frame drive and output	A3	
l1-l2-l3	Tuner & IF	A4	
L1-L2-L3	Line drive	A2	
P1-P2-P3	Power supply	A1	
S1-S2-S3	Synchronisation	A6	
V1-V2-V3	Video processing	A5, B1	

The numbering is in a logical sequence for diagnostics. Always start diagnosing within a functional block in the sequence of the relevant test points for that block.

Perform measurements under the following conditions:

- Service Default Alignment Mode.
- Video: colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

### 5.2 **Service Modes**

Service Default Alignment Mode (SDAM) offers several features for the service technician, while the Customer Service Mode (CSM) is used for communication between dealer and customer.

Table 5-2

SW Cluster	Software name	UOC type	Diversity	
1EU1	L01HE1 X.Y	TDA9552	L01H.2E	
Abbreviations: H = Hotel, E = Europe, 1 = Basic, Basic Plus				
and System, English, French, German and Italian				

### 5.2.1 Service Default Alignment Mode (SDAM)

### Purpose

- To change option settings.
- To create a predefined setting to get the same measurement results as given in the manual.
- To display / clear the error code buffer when leaving SDAM with "STANDBY" key on remote control.
- To override SW protections.
- To perform alignments.
- To start the blinking LED procedure.

### Specifications

Tuning frequency:

- 475.25 MHz for PAL/SECAM (Europe and AP-PAL)
- Colour system:
  - PAL-M for LATAM BI/TRI/FOUR-NORMA.
  - SECAM L for France.
  - NTSC for NAFTA and AP-NTSC.
  - PAL-BG for Europe and AP-PAL.
- All picture settings at 50 % (brightness, colour contrast,
- Bass, treble and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled, like:
  - (sleep) timer,
  - child/parental lock,
  - blue mute,
  - hotel/hospitality mode
  - auto switch-off (when no 'IDENT' video signal is received for 15 minutes),
  - skip / blank of non-favorite presets / channels,
  - auto store of personal presets,
  - auto user menu time-out.
- Operation hours counter.
- Software version.
- Option settings.
- Error buffer reading and erasing.
- Software alignments.

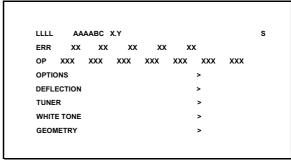
### How to Activate SDAM

Use one of the following methods:

- Use a System 7 remote control type T374AH (RCtransmitter RG4172BK) and key in the code '062596' directly followed by the 'M' (menu) button or
- Short circuit jumper wires 9631 and 9641 on the mono carrier (see fig. 8-1) and apply AC power. Then press the power button (remove the short circuit after start-up). Caution: Entering SDAM by short circuiting wires 9631 and 9641 will override the +8V-protection. Do this only for a short period. When doing this, the service-technician must know exactly what he is doing, as it could lead to damaging the set.

After activating SDAM, the following screen is visible, with S at the upper right side for recognition.

### **SDAM Menu**



CL 16532138 014.eps

Figure 5-1

This is the operation hours counter. It counts the normal operation hours, not the standby hours.

### 2. AAAABC-X.Y

This is the software identification of the main micro

- A =the project name (L01H).
- B = the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.
- C = the feature and language:

- (Europe: 1 = Basic, Basic Plus and System, English, French, German and Italian)
- (AP: 1 = Z, R and Y System, English, Malay and Simplified Chinese)
- (Latam: 1=H and S system)
- X = the main software version number.
- Y = the sub software version number.

### 3. S Indication of the actual mode.

S= SDAM= Service Default Alignment mode.

### 4. Error buffer

Five errors possible.

### 5. Option bytes

Seven codes possible.

### 6. Options

To set the Option Bytes. See chapter 8.3.1 for a detailed description.

### 7. Deflection

To set the deflection values. See chapter 8.3.2 for a detailed description.

### 8. Tuner

To align the Tuner. See chapter 8.3.3 for a detailed description.

### 9. White Tone

To align the White Tone. See chapter 8.3.4 for a detailed description.

### 10. Geometry

To align the Geometry. See chapter 8.3.5 for a detailed description.

### How to Navigate

Use one of the following methods:

- In SDAM, select menu items with the CURSOR UP/DOWN key on the remote control transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the CURSOR UP/DOWN key to display the next / previous menu items.
- · With the CURSOR LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.
- When you press the MENU key in a submenu, you will return to the previous menu.

### How to Store Settings

To store settings first go back to the main menu (fig. 5-1) with "MENU" button on the remote control and then leave the SDAM with the "STANDBY" button on the remote control.

### How to Exit

Switch the set to STANDBY by pressing the power button on the remote control transmitter. The error buffer is cleared. (If you switch the set 'off' by removing the AC power, the set will return in SDAM when AC power is re-applied and the error buffer will not be cleared.)

### 5.2.2 Customer Service Mode (CSM)

### Purpose

When a customer is having problems with his TV-set, he can call his dealer. The service technician can then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge how severe the complaint is. In a lot of cases he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer

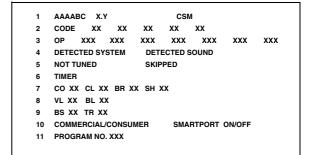
The CSM is a read only mode, therefore modifications in this mode are not possible.

### How to Activate

To activate the CSM press the RECALL button on the System 7 remote control RG4172BK.

After switching ON the Customer Service Mode, the following screen will appear:

### **CSM Menu**



CL 16532138\_019.eps 141201

### Figure 5-2

- 1. Software identification of the main micro controller (see paragraph 5.2.1 for an explanation).
- Error code buffer (see paragraph 5.4 for more details).Displays the last five errors of the error code buffer.
- In this line, the Option Bytes (OB) are visible. Each Option Byte is displayed as a decimal number between 0 and 255. The set may not work correctly when an incorrect option code is set. See chapter 8.3.1 for more information on the option settings.
- Indicates which color and sound system is installed for the selected pre-set.
- Indicates if the set is receiving an 'IDENT' signal on the selected source. It will display 'NOT TUNED' if not.
- Shows "TIMER" if the sleep timer is activated, shows nothing when sleep timer is not activated.
- Value indicates parameter levels at CSM entry. CO= CONTRAST, CL= COLOR, BR= BRIGHTNESS, SH= SHARPNESS
- Value indicates parameter levels at CSM entry. VL= VOLUME LEVEL, BL= BALANCE LEVEL
- Value indicates parameter levels at CSM entry (only for stereo sets). BS= BASS, TR= TREBLE
- Mode Commercial = Hotel / Institutional mode or mode Consumer. Smartport. Indicates whether the Smart Port is selected or not.
- 11. Program NO. TV. Indicates to what channel the TV is tuned.

### How to Exit

Use one of the following methods:

- Press any button of the remote control transmitter.
- Press RECALL on a System 7 remote control (the RCtransmitter RG4172BK).
- Switch-off the TV set with the AC power switch.

### 5.3 Problems and Solving Tips (Related to CSM)

### 5.3.1 Picture Problems

**Note:** Below described problems are all related to the TV settings. The procedures to change the value (or status) of the different settings are described.

### No Colours / Noise in Picture

Check CSM line 4. Wrong colour system installed. To change the setting:

- Press the MENU button on the remote control.
- 2. Select the INSTALLATION sub menu.
- Select and change the SYSTEM setting until picture and sound are correct.
- 4. Select the STORE menu item.

### Colours Not Correct / Unstable Picture

Check CSM line 4. Wrong colour system installed. To change the setting:

1. Press the MENU button on the remote control.

- 2. Select the INSTALLATION sub menu.
- Select and change the SYSTEM setting until picture and sound are correct.
- 4. Select the STORE menu item.

### Picture too Dark or too Bright

Increase / decrease the BRIGHTNESS and / or the CONTRAST value when:

- The picture improves after you have pressed the 'Smart Picture' button on the remote control.
- The picture improves after you have switched on the Customer Service Mode

The new 'Personal' preference value is automatically stored.

### White Line Around Picture Elements and Text

Decrease the SHARPNESS value when:

 The picture improves after you have pressed the 'Smart Picture' button on the remote control.

The new 'Personal' preference value is automatically stored.

### Snowy Picture

Check CSM line 5. If this line indicates 'Not Tuned', check the following:

- No or bad antenna signal. Connect a proper antenna signal.
- · Antenna not connected. Connect the antenna.
- No channel / pre-set is stored at this program number. Go to the INSTALL menu and store a proper channel at this program number.
- The tuner is faulty (in this case the CODES line will contain error number 10). Check the tuner and replace / repair if necessary.

### Snowy Picture and/or Unstable Picture

· A scrambled or decoded signal is received.

### Black and White Picture

Increase the COLOR value when:

 The picture improves after you have pressed the 'Smart Picture' button on the remote control.

The new 'Personal' preference value is automatically stored.

### Menu Text Not Sharp Enough

Decrease the CONTRAST value when:

 The picture improves after you have pressed the 'Smart Picture' button on the remote control.

The new 'Personal' preference value is automatically stored.

### 5.3.2 Sound Problems

### No Sound or Sound too Loud (After Channel Change / Switching On)

Increase / decrease the VOLUME level when the volume is OK after you switched on the CSM. The new 'Personal' preference value is automatically stored.

### 5.4 Error Buffer

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is written at the left side and all other errors shift one position to the right.

### 5.4.1 How to Read the Error Buffer

Use one of the following methods:

- On screen via the SDAM (only if the TV gives a picture).
   Examples:
  - ERROR: 0 0 0 0 0 : No errors detected
  - ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
  - ERROR: 9 6 0 0 0 : Error code 6 was first detected and error code 9 is the last detected (newest) error
- Via the blinking LED procedure (when you have no picture). See next paragraph.

### 5.4.2 How to Clear the Error Buffer

The error code buffer is cleared in the following cases:

- When you exit SDAM with the STANDBY command on the remote control (when leaving SDAM, by disconnecting the set from AC power, the error buffer is not cleared).
- If the content of the error buffer has not changed for 50 hours, it resets the buffer automatically.

### **Error Codes**

In case of non-intermittent faults, clear the error buffer before you begin the repair. This to ensure that old error codes are no longer present.

If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error code and not the actual cause (e.g., a fault in the protection detection circuitry can also lead to a protection).

### Table 5-3

ERROR CODE TABLE				
ERROR	Device	Error description	Def. item	Diagram
0	Not applicable	No Error		
1	Not applicable	X-Ray Protection (USA)	2465, 7460	A2
2	Not applicable	Horizontal Protection	7460, 7461, 7462, 7463, 6467	A2
3	TDA8359/TDA9302	Vertical Protection	7861, VloAux +13v	A2, A3
4	MSP34X5/TDA9853	MAP I2C identification error	7831, 7861	A9 or A11
5	TDA95XX	POR 3.3V / 8V Protection	7200, 7560, 7480	A1, A2. A5, A6, A7
6	I2C bus	General I2C bus error	7200, 3624, 3625	A7
7	Not applicable	-	-	-
8	Not applicable	E/W Protection (Large Screen)	7400, 3405, 3406, 3400	A2
9	M24C08	NVM I2C identification error	7602, 3611, 3603, 3604	A7
10	Tuner	Tuner I2C identification error	1000, 7482	A2, A4
11	TDA6107/8	Black current loop protection	7330, RGB amps, CRT	B1, B2
12	M65669	MAP I2C identification error (USA)	7803	Р

Note: Error 7 is Not applicable, Due to ASD issue.

### 5.5 The Blinking LED Procedure

Via this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful when there is no picture.

Go into the SDAM menu with one of the following methods:

- '062596 M' on a System 7 remote control (the RCtransmitter RG4172BK).
- Short circuit wires 9631 and 9641 on the mono carrier and apply AC power. Then press the power button (remove the short circuit after start-up).

As soon as you are in SDAM the blinking LED procedure will start

Error-codes are shown as follows:

- n short blinks (the number of n indicates the error code number.),
- 2. a pause of 1.5 s,
- 3. n short blinks (for the next error),
- 4. when all the error-codes are displayed, the sequence finishes with a LED blink of 3 s,
- 5. the sequence starts again.

Example of error buffer: 12 9 6 0 0

After entering SDAM:

- 1. 12 short blinks followed by a pause of 1.5 s,
- 2. 9 short blinks followed by a pause of 1.5 s,
- 3. 6 short blinks followed by a pause of 1.5 s,
- 4. 1 long blink of 3 s to finish the sequence,
- 5. the sequence starts again.

### 5.6 Protections

If a fault situation is detected an error code will be generated and if necessary, the set will be put in the protection mode. Blinking of the red LED at a frequency of 3 Hz indicates the protection mode. In some error cases, the microprocessor does not put the set in the protection mode. The error codes of the error buffer can be read via the service menu (SDAM) or the blinking LED procedure.

To get a quick diagnosis the chassis has two service modes implemented:

- The Customer Service Mode (CSM).
- The Service Default Alignment Mode (SDAM). Start-up of the set in a predefined way and adjustment of the set via a menu and with the help of test patterns.

### 5.7 Repair Tips

Below some failure symptoms are given, followed by a repair tip.

- Set is dead and makes hiccuping sound
   'MainSupply' is available. Hiccuping stops when desoldering L5561, meaning that problem is in the
   'MainSupply' line. No output voltages at LOT, no horizontal deflection. Reason: line transistor TS7460 is defective.
- Set is dead, and makes no sound
   Check power supply IC7520. Result: voltage at pins 1, 3, 4, 5 and 6 are about 180 V and pin 8 is 0 V. The reason why the voltage on these pins is so high is because the output driver (pin 6) has an open load. That is why MOSFET TS7521 is not able to switch. Reason: feedback resistor

driver (pin 6) has an open load. That is why MOSFET TS7521 is not able to switch. Reason: feedback resistor 3523 is defective. Caution: be careful measuring on the gate of TS7521; circuitry is very high ohmic and can easily be damaged! (first connect measuring equipment to ground, then to the gate).

Set is in hiccup mode and shuts down after 8 s.
Blinking LED (set in SDAM mode) indicates error 5. As it is unlikely that P 'POR' and '+8V protection' happen at the same time, measure the '+8V'. If this voltage is missing, check transistor TS7480.

### Set is non-stop in hiccup mode

Set is in over current mode; check the secondary sensing (opto coupler 7515) and the 'MainSupply' voltage. Signal 'Stdby\_con' must be logic low under normal operation conditions and goes to high (3.3 V) under standby and fault conditions

### · Set turns on, but without picture and sound

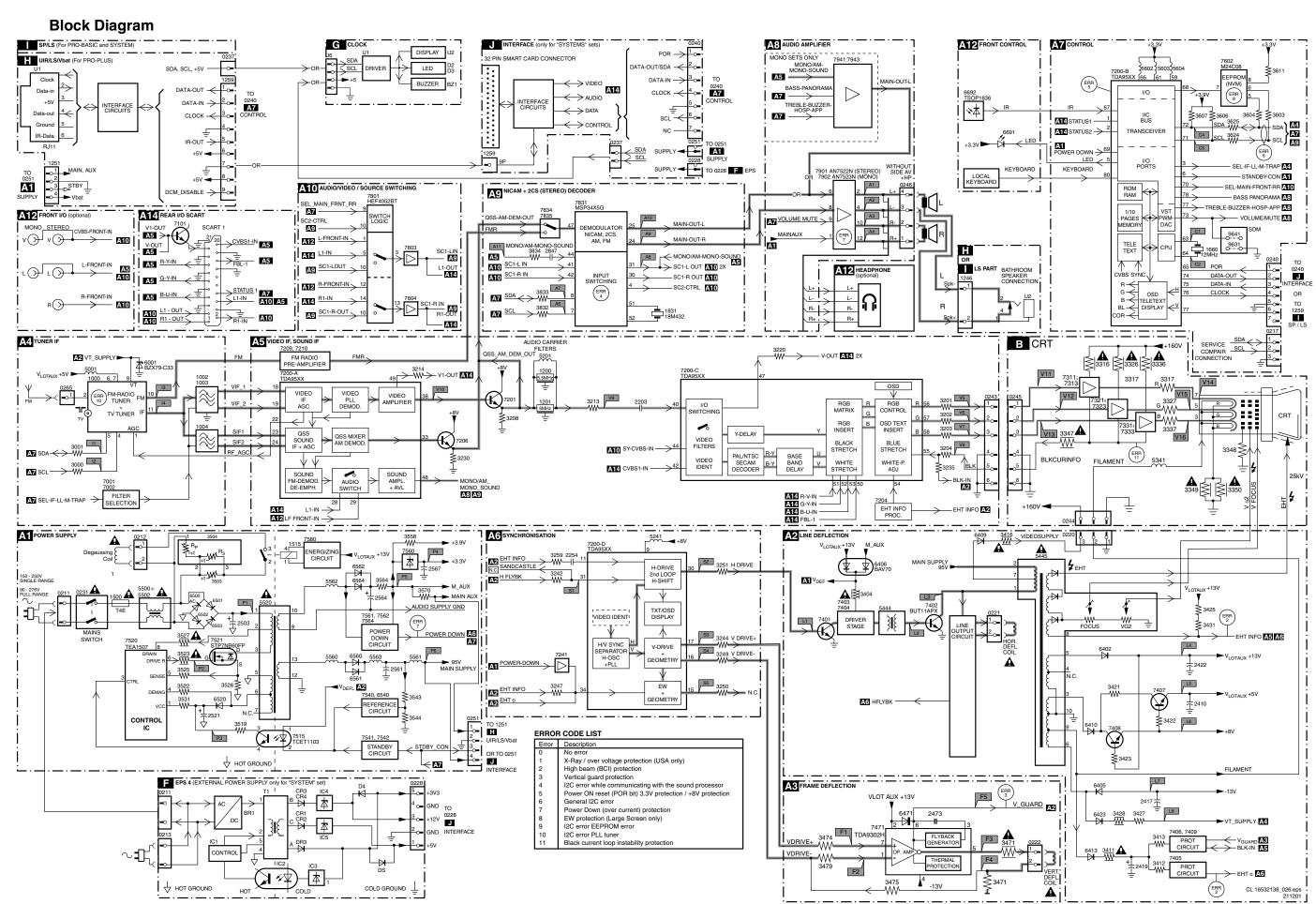
The screen shows snow, but OSD and other menus are okay. Blinking LED procedure indicates error 11, so problem is expected in the tuner (pos. 1000). Check presence of supply voltages. As 'Vlotaux+5V' at pin 5 and 7 are okay, 'VT\_supply' at pin 9 is missing. Conclusion: resistor 3460 is defective.

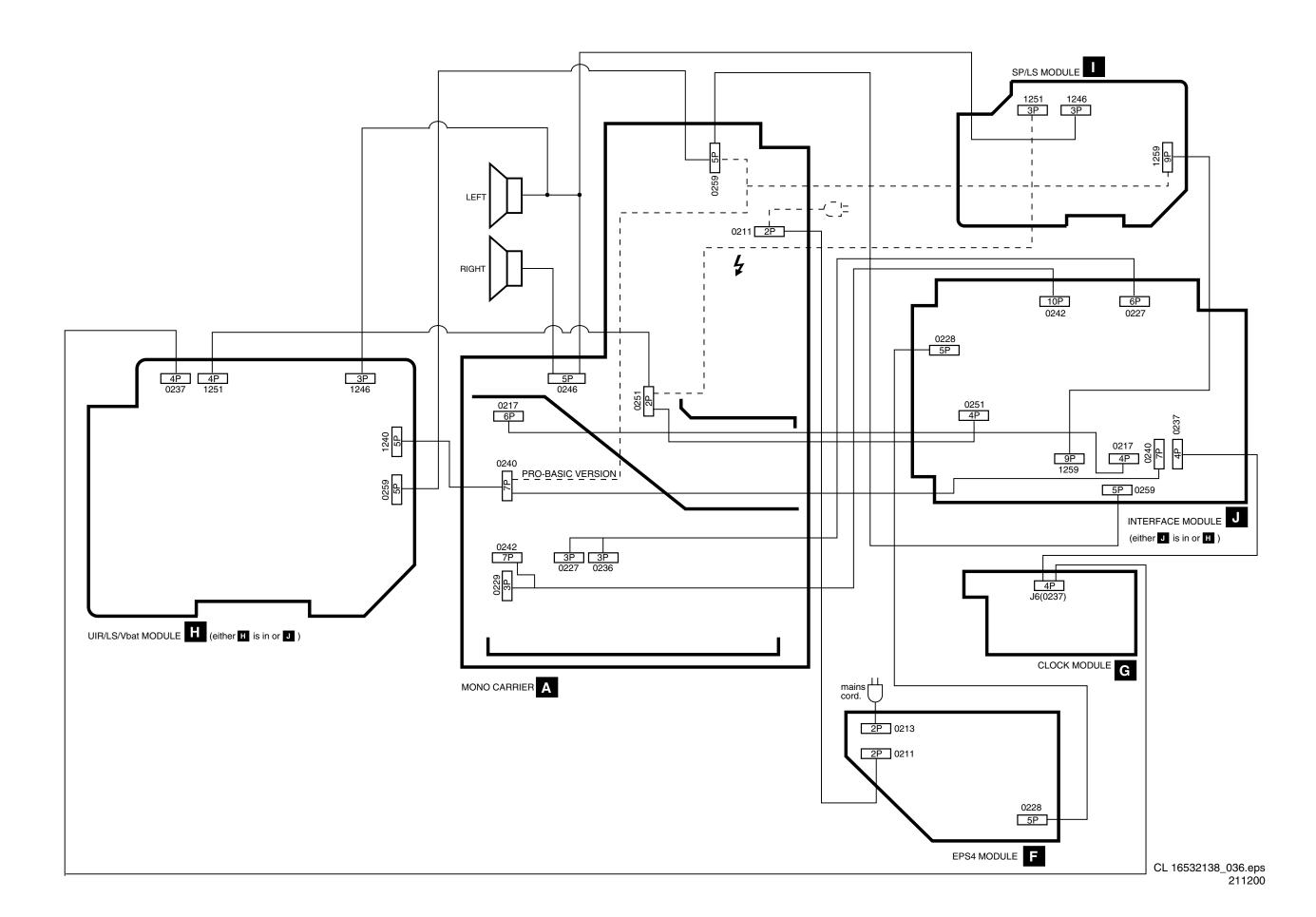
Set turns on, but with a half screen at the bottom.
 Sound is okay

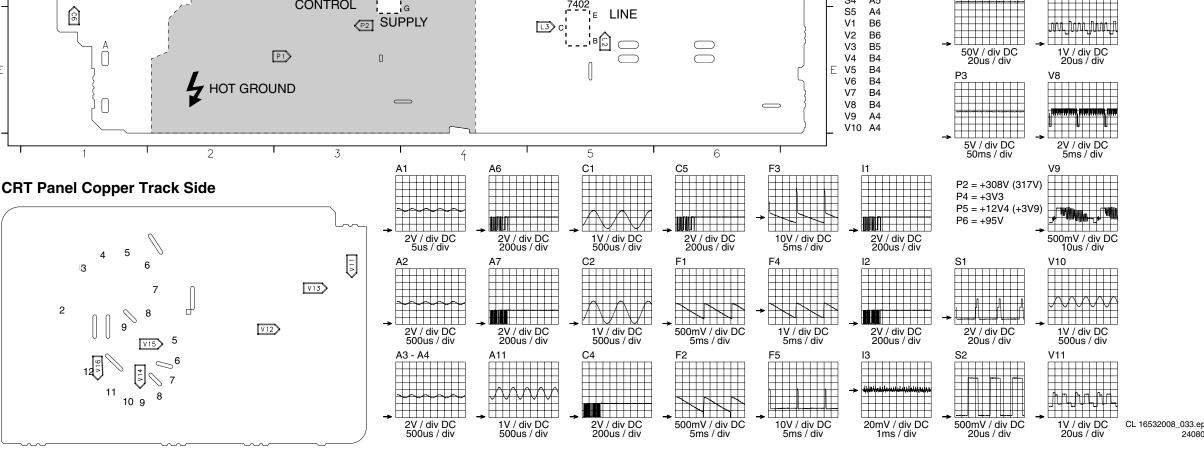
Blinking LED (set in SDAM mode) indicates error 3. Check 'Vlotaux+13V' and '+50V'. If they are okay, problem is expected in the vertical amplifier IC7471. Measure with a scope the waveform on pin 17 of the UOC. Measure also at pin 1 of IC7471. If here the signal is missing, a defective resistor R3244 causes the problem

Personal Notes:	
	,

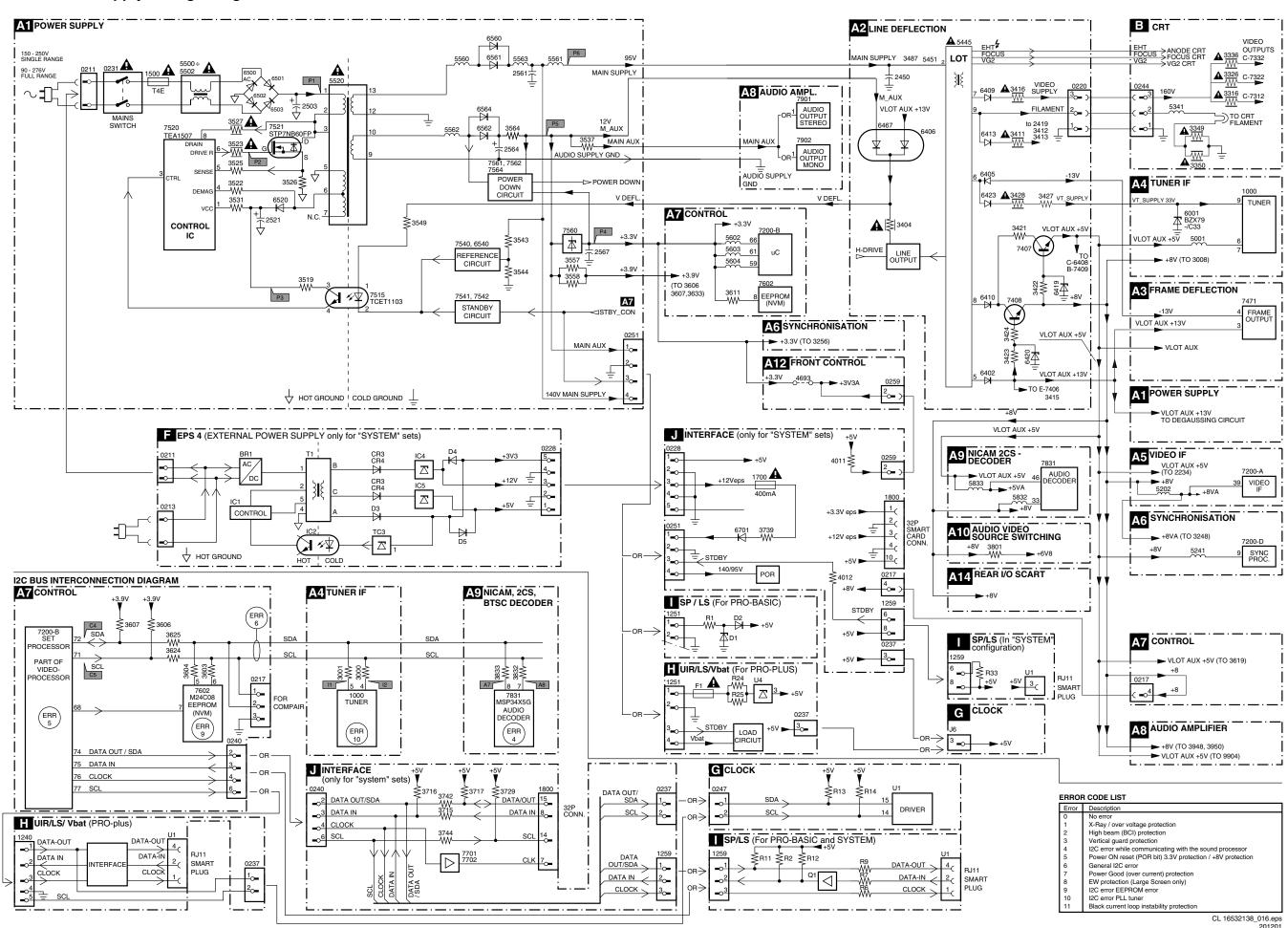
### 6. Block- and Wiring Diagram, Testpoints, I<sup>2</sup>C, and Supply Voltage Overview





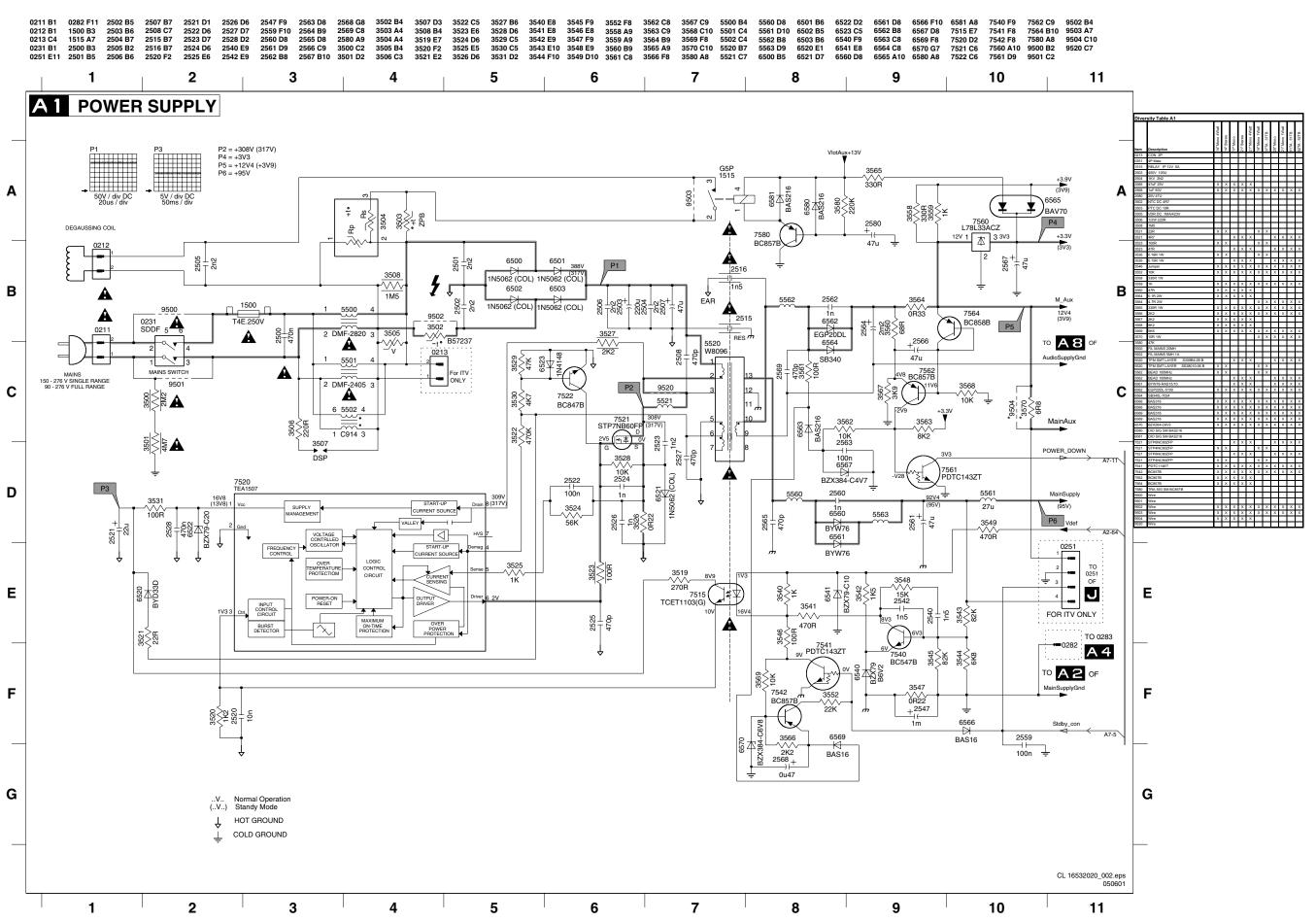


### I<sup>2</sup>C and Supply Voltage Diagram

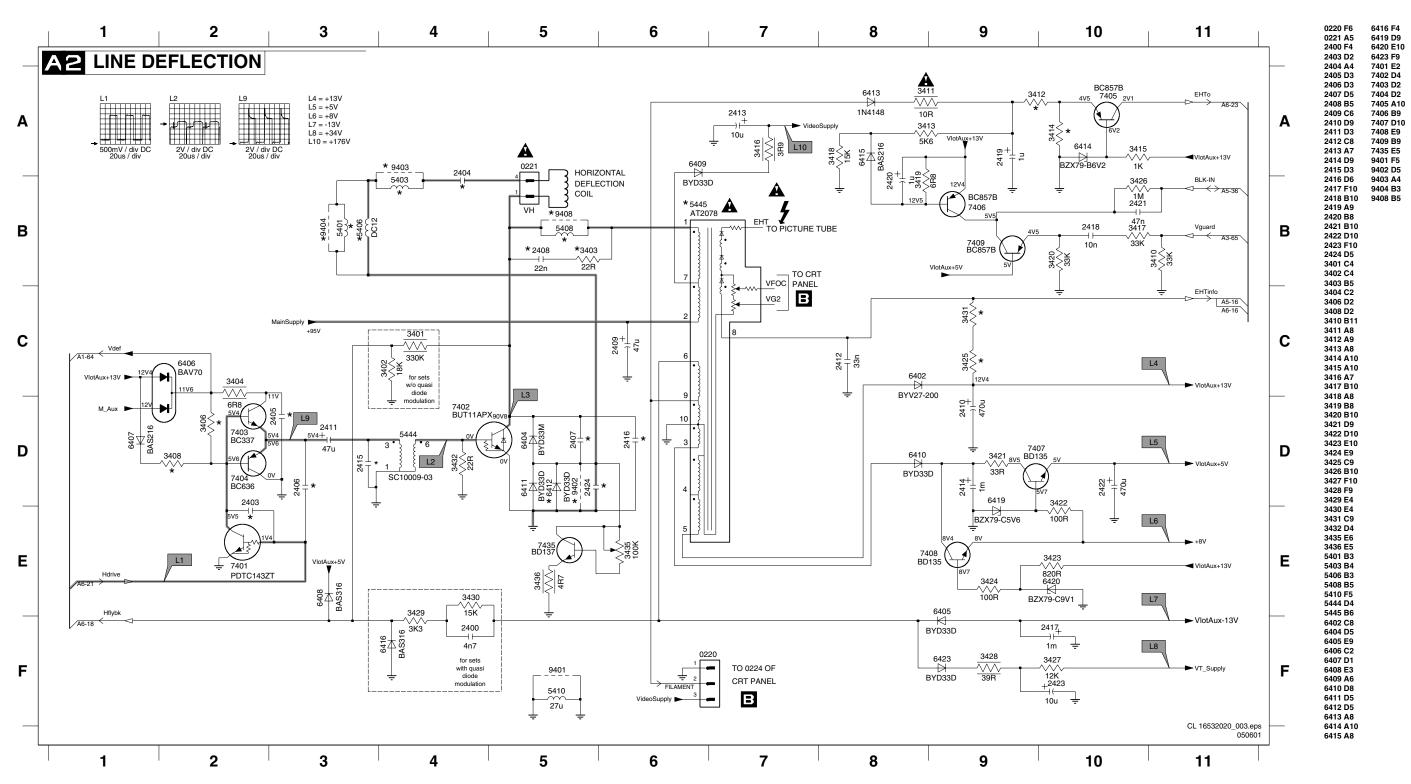


### 7. Schematics and PWB's

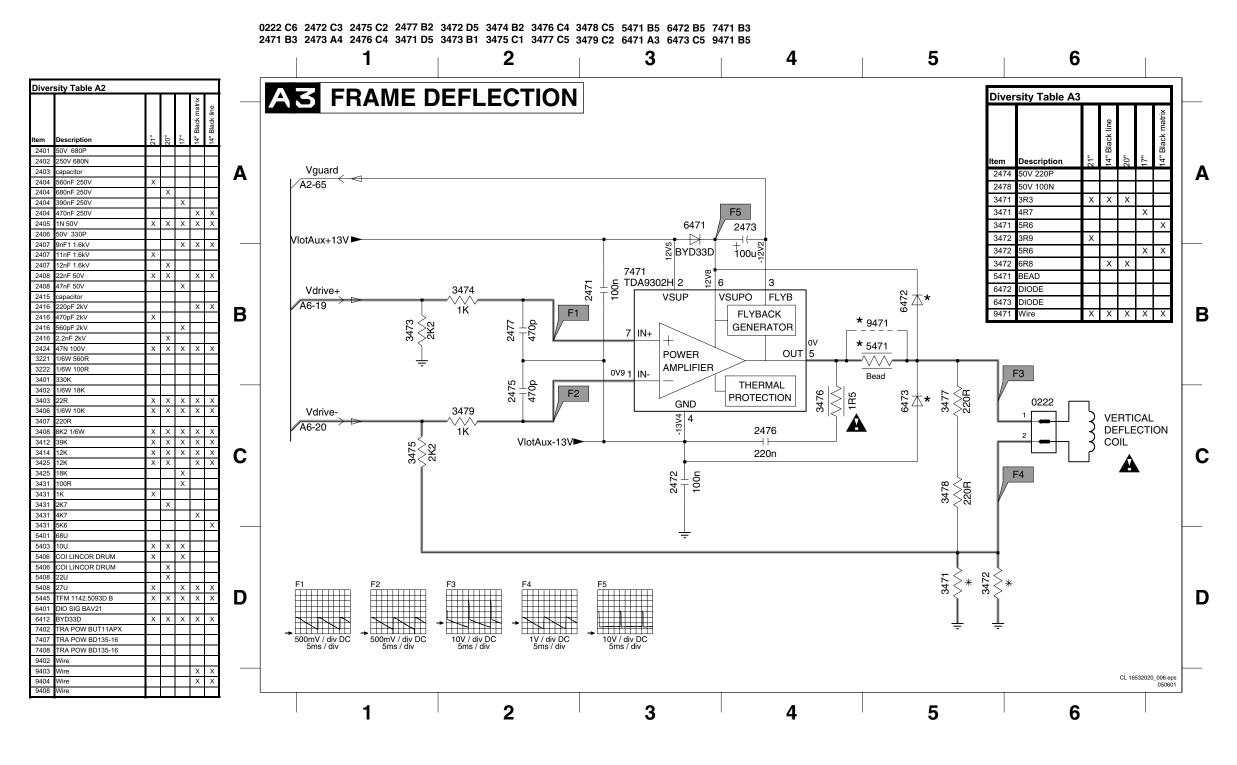
**Mono Carrier: Power Supply** 



### **Mono Carrier: Line Deflection**



### **Mono Carrier: Frame Deflection**



4

### **Mono Carrier: Tuner IF**

2

0265 A3 0285 B1 1002 D6 1004 E6 2002 C2 2004 B4 2006 B5 2008 C4 2010 A3 3001 C2 3003 B6 3005 C7 3007 D4 3009 D5 3011 D3 4001 C4 4003 E5 4005 D5 4007 B6 4012 F6 5002 C4 6001 A4 6003 C5 6005 D5 7002 E5 0283 B1 1000 A2 1003 E6 2001 C2 2003 D4 2005 A4 2007 B5 2009 C7 3000 C2 3002 C5 3004 C6 3006 D4 3008 D4 3010 D2 3012 A5 4002 E6 4004 E6 4006 D4 4011 F6 5001 A5 5003 F7 6002 B5 6004 D4 7001 E4 9001 D5 6 A4 TUNER IF Diversity Table A4 FM-RADIO ANTENNA VlotAux+5V VT\_Supply FOR ITV ONLY Α 3012 33R 1000 FM-ANT 3003 0285 TUN V+U PLL IEC BGDK **TUNER** TUNER UR1316R/A I -3 В В TO 0282 FOR EMC ONLY OFWK3953M 1002 X X DFWK6289K DFWK9656M ADC . x x x x x x x x x x 50V 10N 6002 BAS216 3005 3000 6003 RF\_AGC ← A5-25 100R 680R Δ7-13 BAS216 3002 l1 3004 13 C C 3001 \\_\\_\ 100R 330R A7-14 4001 Jumper 2001 H F 2002 lumper 4004 Jumper 3010 **\***1002 100R OFWG1984M X X Jumper VIF\_1 **\***9001 4012 Jumper 4608 Jumper D 222 D \* 4006 \* 6004 BA792 \* 4005 \* 6005 VIF\_2 X X 6002 BAS216 6004 BA792 **\*** 1003 6005 BA792 OFWK6272K **\***4003 Ε  $\frac{2}{\text{ING}_{\sim}\text{GND}_{\sim}} \frac{\text{O2}}{\text{O2}}$ **\*** 4004 SEL-IF-LL\_M-TRAP 7002 7001 A7-3 PDTC124ET PDTC124ET \*1004 OFWG1984M SIF\_1 A5-28 **\***4011 SIF\_2 F A5-29 \* 4012 CL 16532020\_008.eps 050601 2V / div DC 200us / div 20mV / div DC 1ms / div 2V / div DC 200us / div 3 5

6

5

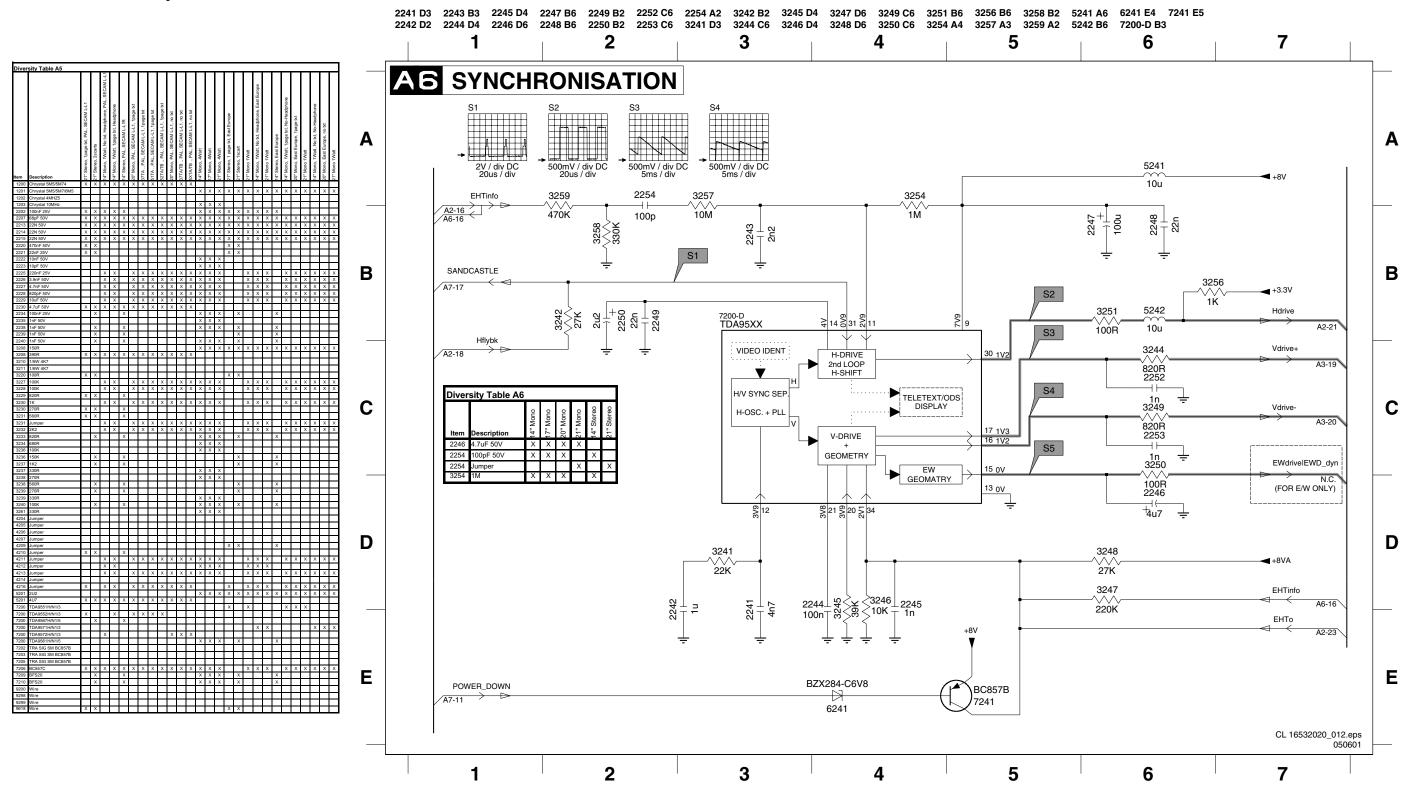
6

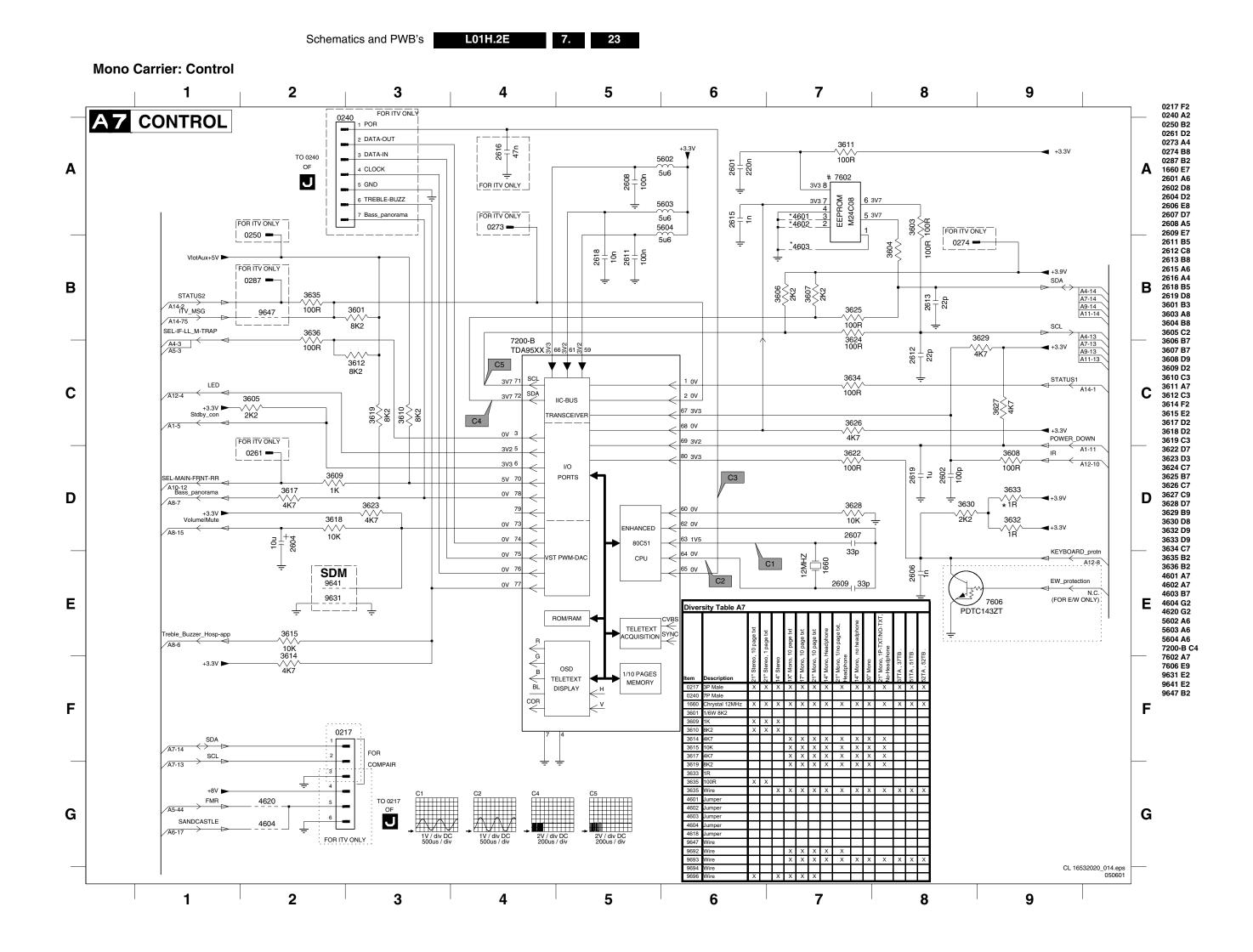
8

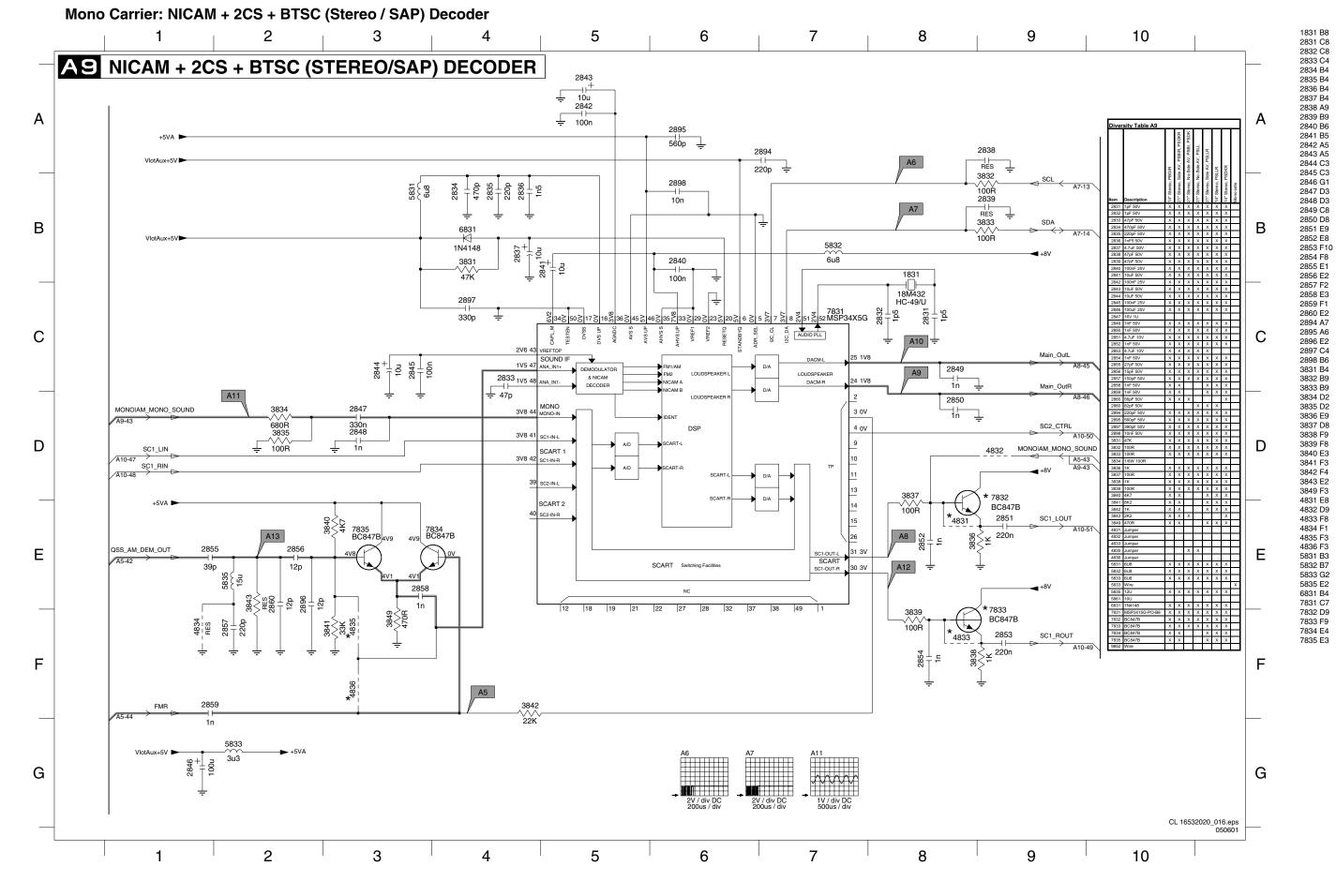
10

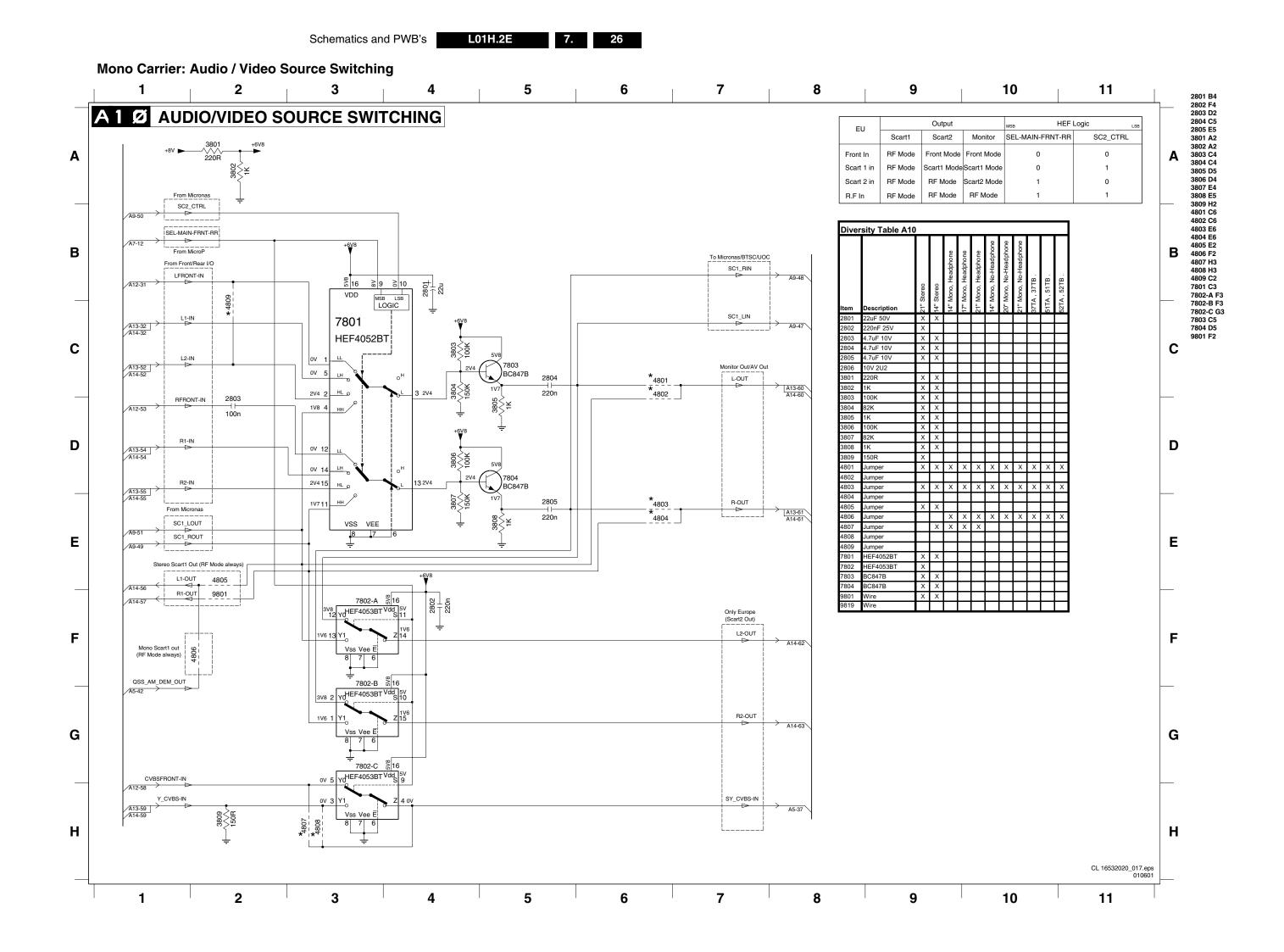
11

### **Mono Carrier: Synchronisation**









### Mono Carrier: Front I/O + Front Control + Headphone

0214 D9 0218-A C2 0218-C A2 0232 E5 0259 D10 0277-A A1 0278 D7 0279 E4 1182 B2 0219 C4 0239 A7 0270 A5 0277-B B1 0286 E7 181 A2 183 C2 1601 A9 1603 A8 2181 A3 2183 C3 185 B3 185 A 1 2 FRONT I/O + FRONT CONTROL + HEADPHONE Diversity Table A12 FRONT CONTROL A7-8 A12-8 FRONT CINCH Α Α POWER 1606 FOR ITV ONLY BAT85 0218 SOC CINCH H 3P F В В 2184 4.7uF 10V C С 2186 390pF 50V C6 = 0V E/E1D 560 ohm 1.5k ohm 1.8k ohm FOR ITV ONLY 0286 Ε AmpOutL\_Pos A8-73 **HEADPHONE** G G CL 16532020\_019.eps 5 10

7

9

8

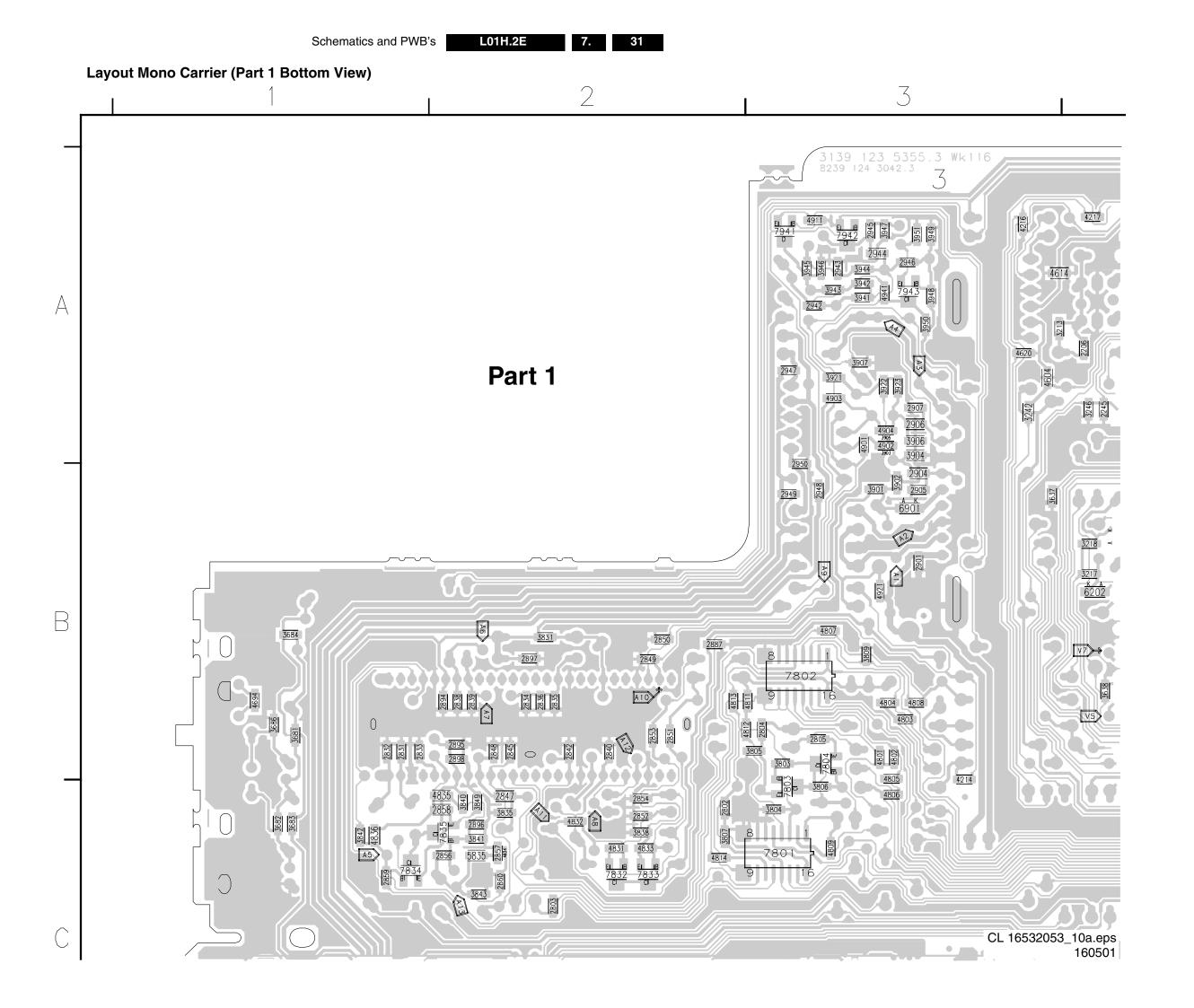
10

11

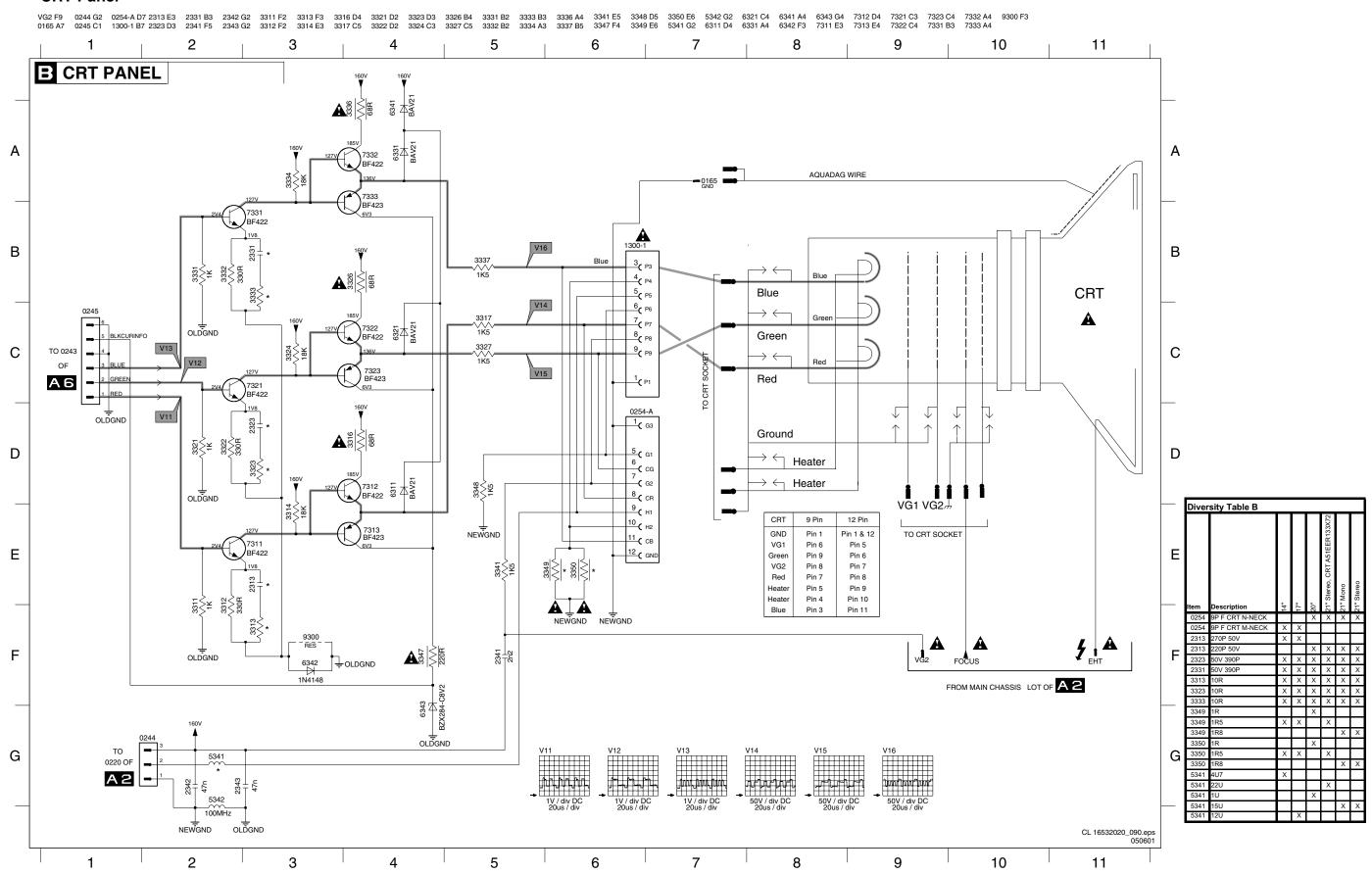
2

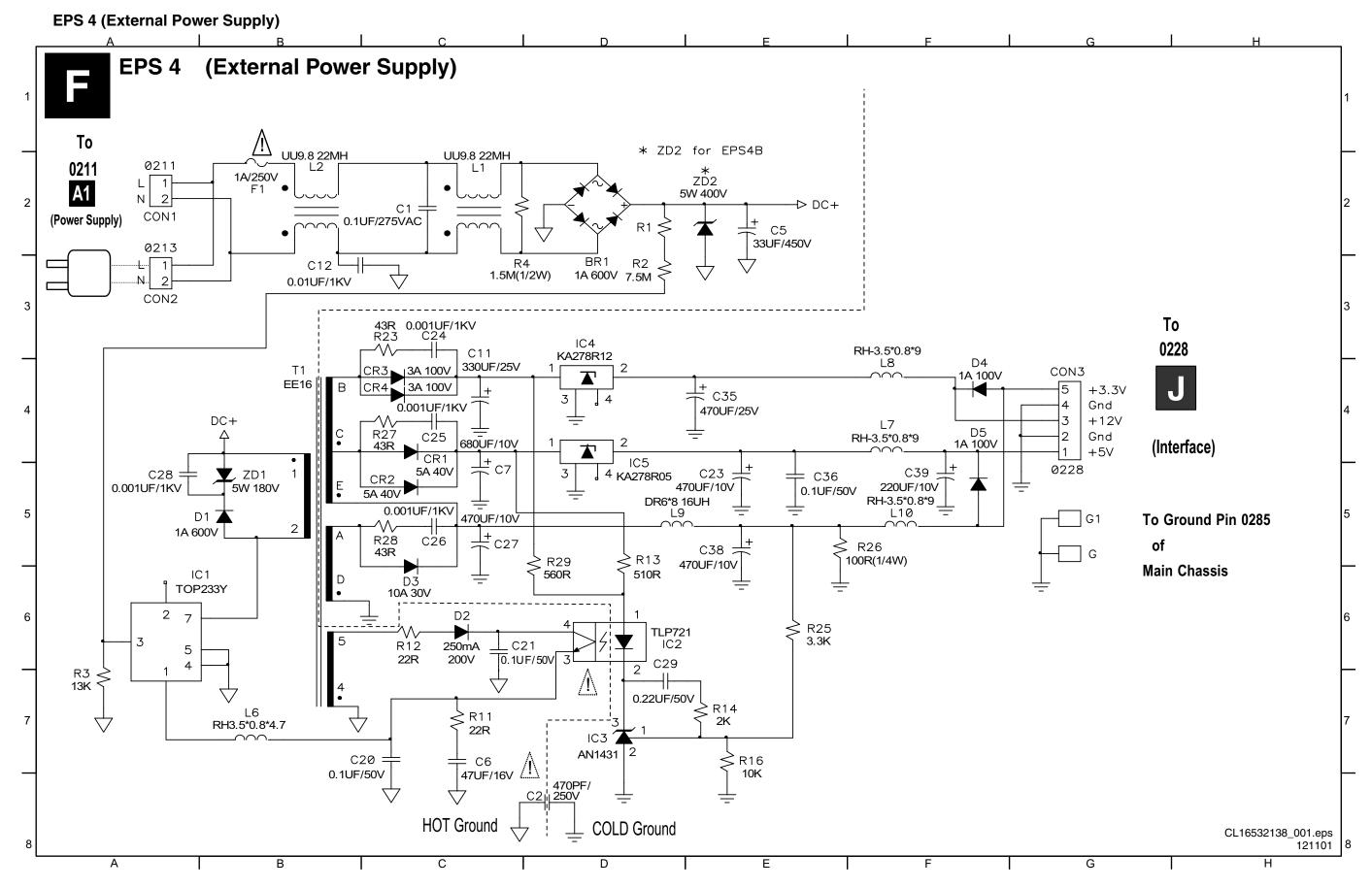
3

4



### **CRT Panel**

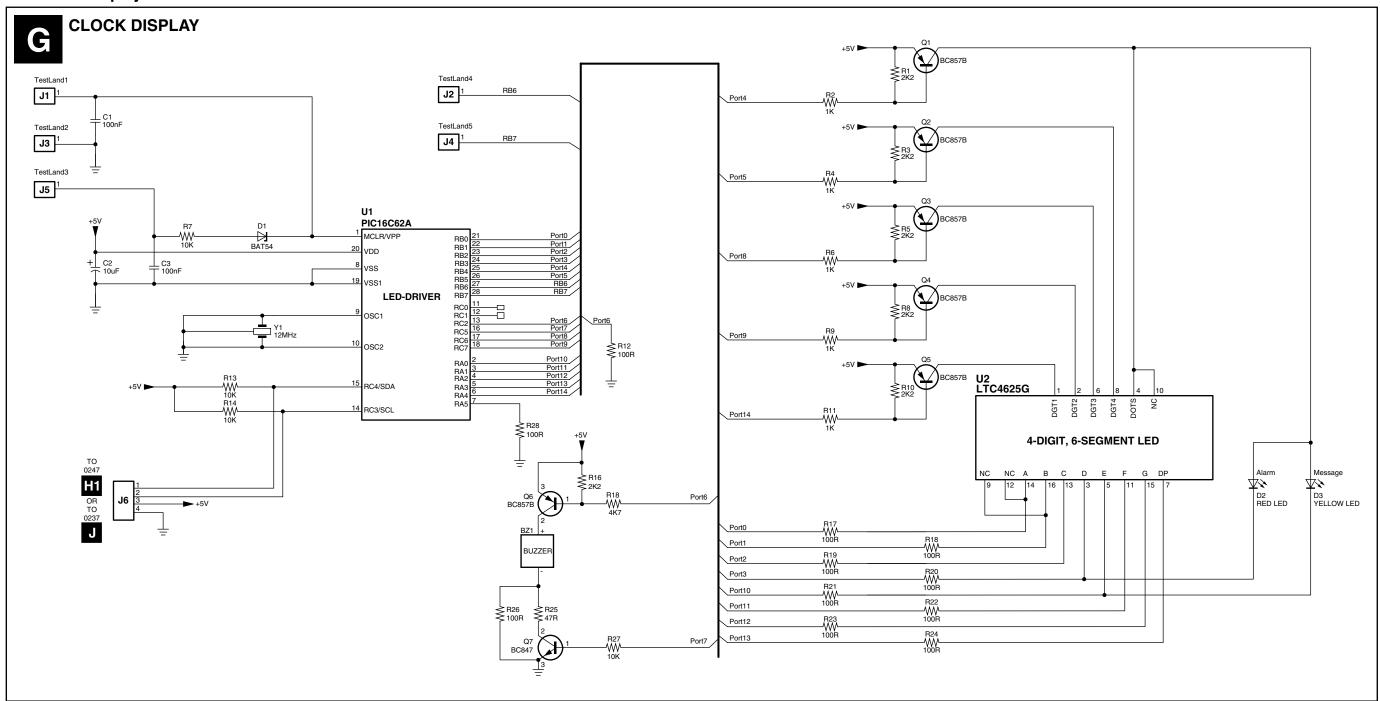


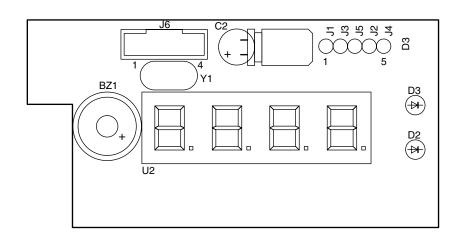


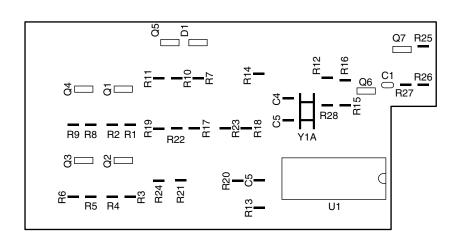
Schematics and PWB's

L01H.2E

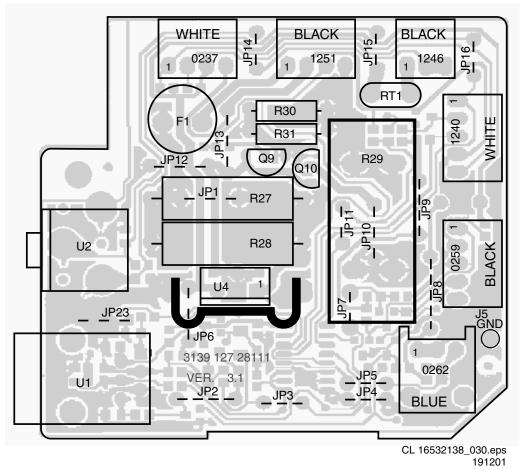
# **Clock Display**



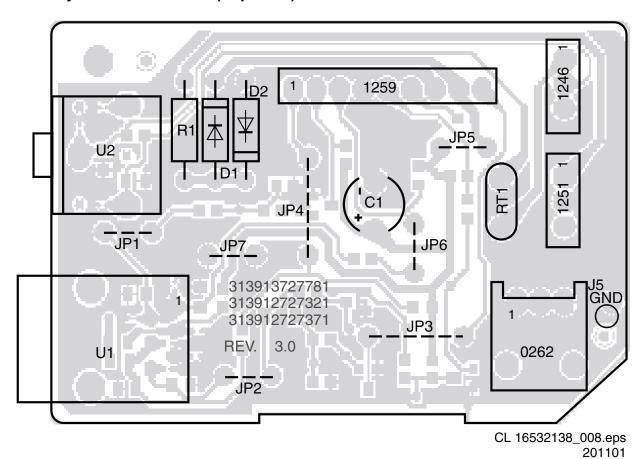




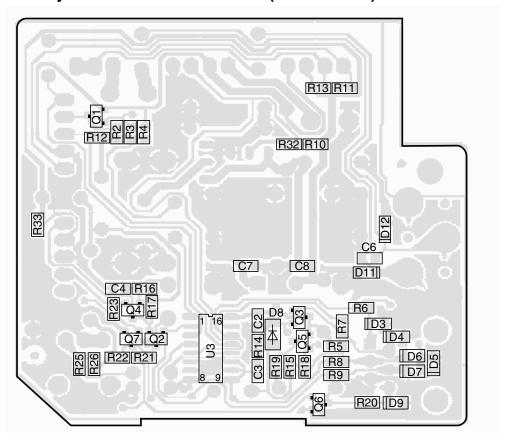
# Layout UIR / LS / Vbat Module (Top View)



# **Layout SP/LS Module (Top View)**

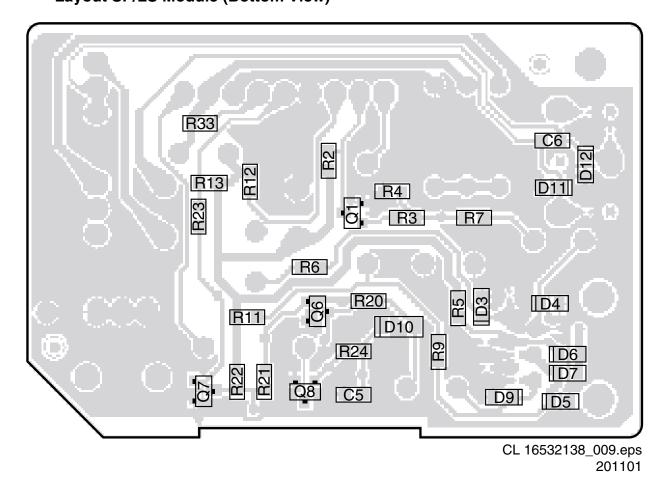


# Layout UIR / LS / Vbat Module (Bottom View)



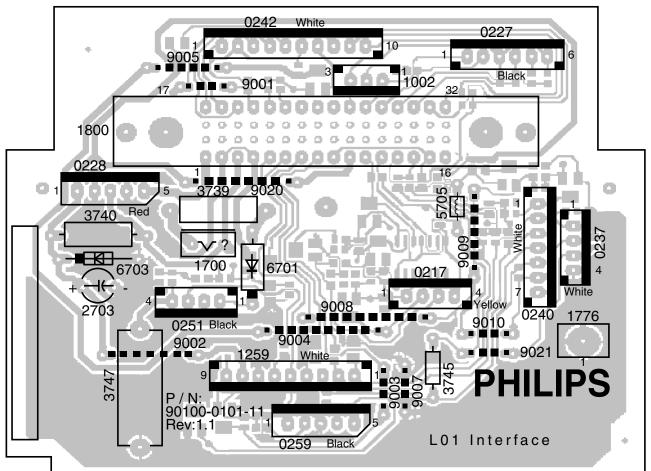
CL 16532138\_031.eps 191201

# Layout SP/LS Module (Bottom View)



Schematics and PWB's L01H.2E 7. 4

# **Layout Interface Panel**



CL 16532138\_004.eps 171101

Personal Notes:	
	_
	_

# **Alignments**

#### Index:

**General Alignment Conditions** Hardware Alignments Software Alignments and Settings

#### Note:

- The Service Default Alignment Mode (SDAM) is described in chapter 5.
- Menu navigation is done with the 'CURSOR UP, DOWN, LEFT or RIGHT' keys of the remote control transmitter.
- Figures can deviate slightly from the actual situation, due to different set executions or software versions.

#### 8.1 **General Alignment Conditions**

Perform all electrical adjustments under the following conditions:

- AC voltage and frequency: according to country's standard.
- Connect the set to the AC power via an isolation transformer.
- Allow the set to warm up for approximately 20 minutes.
- Measure the voltages and waveforms in relation to chassis ground (with the exception of the voltages on the primary side of the power supply). Never use the cooling fins / plates as ground.
- Test probe: Ri > 10 M $\Omega$ ; Ci < 2.5 pF.
- Use an isolated trimmer / screwdriver to perform the alignments.

#### 8.2 **Hardware Alignments**

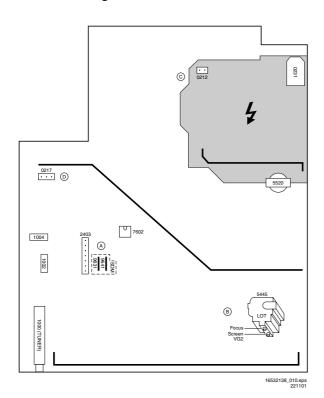


Figure 8-1

# Vg2 Adjustment (AKB method)

- 1. Connect the RF output of a pattern generator to the antenna input. Test pattern is a 'black' picture (blank screen on CRT without any OSD info). Set TV to AV mode.
- Activate the SDAM.
- Select Options and set item "protection" to off.
- Select Deflection menu.
  - Set AKB to OFF (OFF=1 position, CCC loop disabled)
  - Set BRIGHTNESS to 75%
    - Set CONTRAST and BRIGHTNESS to zero.
- Unplug the vertical deflection coil connector "0222" (one bright vertical line).
- Adjust Vg2 until the vertical line just appears.
- Connect back the deflection coil connector "0222"
- Set AKB back to ON (=0).
- Restore BRIGHTNESS and CONTRAST to normal picture
- 10. Select Options and set item "protection" back to on.
- 11. Return to the SDAM (main menu) via the MENU key
- 12. Exit service mode

# Focusing

- 1. Tune the set to a circle or crosshatch test pattern (use an external video pattern generator).
- 2. Choose picture mode NATURAL with the 'SMART PICTURE' button on the remote control transmitter.
- Adjust the FOCUS potentiometer (see Fig. 8-1) until the vertical lines at 2/3 from east and west, at the height of the centreline, are of minimum width without visible haze.

#### 8.3 **Software Alignments and Settings**

Activate the Service Default Alignment Mode (see chapter 5). The SDAM menu will now appear on the screen. Select one of the following alignments:

- 1. OPTIONS
- 2. DEFLECTION
- 3. TUNER
- WHITE TONE
- **GEOMETRY**

# 8.3.1 Options

# Table 8-1

LLLL AAAABC X.Y	S
ERR XX XX XX XX XX	
OP XXX XXX XXX XXX XXX	
XXX XXX	
OB0	XXX
OB1	XXX
OB2	XXX
OB3	XXX
OB4	XXX
OB5	XXX
OB6	XXX
LOAD DEFAULT	>
WATCHDOG	ON / OFF
PROTECTION	ON / OFF
SOUND	NONE / 3415 / 3465
DEFAULT SOUND	WEST-EU / UK / EAST-
	EU / FRANCE
QSS	ON / OFF
PIN2	NONE / UIR MSG
PIN77	NONE / I2C
CLOCK	OSD / LED / NONE
BUZZER	NONE / INT / EXT
EW	ON / OFF
WIDESCREEN	ON / OFF
TUNER	NONE / APLS / PHILIPS
LNA	ON / OFF
RADIO	ON / OFF
WSL	NONE / 4136 / 1836
ACTIVE-OFF LED	ON / OFF
RGB	ALWAYS / AV
AV1	ON / OFF
AV2	ON / OFF
AV3	ON / OFF
AV2YC	ON / OFF
NO IDENT STANDBY	ON / OFF

**Note:** Options are used to control the presence / absence of certain features and hardware.

# How to Change an Option Byte

An Option Byte represents a number of different options. Changing these bytes directly makes it possible to set all options very fast. All options are controlled via seven option bytes. Select the option byte (OB1.. OB7) with the MENU UP/DOWN keys, and enter the new value.

Leaving the OPTION submenu and switching the set off with the standby button on the remote saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched OFF and ON with the AC power switch (cold start)

# How to Calculate the Value of an Option Byte

Calculate an Option Byte value (OB1 .. OB7) in the following way:

- 1. Check the status of the single option bits (OP): are they enabled (1) or disabled (0).
- When an option bit is enabled (1) it represents a certain value (see first column 'value between brackets' in first table below). When an option bit is disabled, its value is 0.
- The total value of an Option Byte is formed by the sum of its eight option bits. See second table below for the correct Option Bytes per typenumber.

Table 8-2

Bit	OB1	OB2	OB3	OB4	OB5	OB6	OB7
(value)							
0 (1)	OP10	OP20	OP30	OP40	OP50	OP60	OP70
1 (2)	OP11	OP21	OP31	OP41	OP51	OP61	OP71
2 (4)	OP12	OP22	OP32	OP42	OP52	OP62	OP72
3 (8)	OP13	OP23	OP33	OP43	OP53	OP63	OP73
4 (16)	OP14	OP24	OP34	OP44	OP54	OP64	OP74
5 (32)	OP15	OP25	OP35	OP45	OP55	OP65	OP75
6 (64)	OP16	OP26	OP36	OP46	OP56	OP66	OP76
7 (128)	OP17	OP27	OP37	OP47	OP57	OP67	OP77
Total:	Sum						

Table 8-3

L01 ITV Europe Options	OB1	OB2	OB3	OB4	OB5	OB6	ОВ7
14HT3154/01	8	16	2	1	3	117	0
14HT3154/05	8	16	2	1	3	117	0
14HT3304/01	8	21	9	1	3	122	0
14HT3304/05	8	21	9	1	3	122	0
17HT3154/01	8	16	2	1	3	117	0
17HT3154/05	8	16	2	1	3	117	0
17HT3304/01	8	21	9	1	3	122	0
17HT3304/05	8	21	9	1	3	122	0
17HT5404/01Z	8	17	2	9	22	122	0
17HT5404/05Z	8	17	2	9	22	122	0
17HT5404/21R	8	17	2	9	22	122	0
17HT5404/25R	8	17	2	9	22	122	0
21HT3154/01	8	16	2	1	3	117	0
21HT3154/05	8	16	2	1	3	117	0
21HT3304/01	9	21	9	1	3	122	0
21HT3304/05	9	21	9	1	3	122	0
21HT5404/01Z	9	17	2	9	22	122	0
21HT5404/05Z	9	17	2	9	22	122	0
21HT5404/21R	9	17	2	9	22	122	0
21HT5404/25R	9	17	2	9	22	122	0

Alignments

Option Bit Assignment
Following are the option bit assignments for all L01 ITV software clusters.

# Table 8-4

Options	Bit	Description	Value
Byte 0	7	Multi-system	0 = Multi, 1 = Dual I-DK
-	6	<u> </u>	
	5		
	4	Default sound	1 = BG (or West EU), 2 =I (or UK), 3 = DK (or East EU), 4 = M, 5 = LL (or France)
	3		
	2		
	1	Sound Board	0 = Mono (no sound board), 1 = MSP 3415G, 2 = MSP 3445G - (BTSC), 3 = MSP 3465G - AV stereo
	0		
Byte 1	7	Not Used	
	6	Not Used	
, ,	5	Not Used	
	4	QSS	1 = UOC and chasis support QSS
	3	Pin 2	0 = None (not used), 1 = UIR-Link Message Input
	2		
	1	Pin 77	0 = None (not used), 1 = SPI I <sup>2</sup> C (at 32-pin card interface)
	0		- · · · · · · · · · · · · · · · · · · ·
Byte 2	7	Pin 78	0 = None (not used), 1 =Wide Screen, 2 = Rotation/Tilt
(Devices)	6		
(201,000)	5	EW	1 = Chasis supports East-West alignment
	4	China	1 = Vision IF is set for China
	3	Radio	1 = Tuner has FM radio feature and TV chasis support FM radio
	2	LNA	1 = Tuner has LNA feature
	1	Tuner	0 = None (no tuner), 1 = Philips (model), 2 = Alps (model)
	0	Turior	o = None (no taner), 1 = 1 miles (model), 2 = Alps (model)
Byte 3	7	Not Used	
(Devices)	6	Not Used	
(Devices)	5	Not Used	
	4		1 = US Region code is used in SmartPort (except command 0x00)
	3	SmartPort	1 = OS negion code is used in SmartPort (except command 0x00)  1 = Chasis supports SmartPort (SPI or I <sup>2</sup> C)
	2	Active-Off LED	1 = LED ON
	1	WSL	0 = None (no used), 1 =4136 (IR receiver model), 2 =1836 (IR receiver model)
	0	WSL	0 = None (110 used), 1 =4130 (In receiver moder), 2 =1030 (In receiver moder)
Byte 4	7	Not Used	
(AV,	6	Not Used	
Tuning)	O	Not Oseu	
σ,	5	Not Used	
	4	AVYC	1 = AV available
	3	AV3	1 = AV available
	2	AV2	1 = AV available
	1	AV1	1 = AV available
	0	RGB	0 = RGB input always allowed, 1 = RGB insertion allowed only when current input source is AV1
Byte 5	7	Not Used	, , , , , , , , , , , , , , , , , , , ,
(Feature)	6	Protection	1 = Protection (TV go to standby). 0 = No protection but errors are still logged.
-,	5	WatchDog	1 = Watchdog feature is enabled
	4	No Ident Standby	1 = TV goes standby after 10mins of no RF signal.
	3	Buzzer Type	0 = None (no buzzer), 1 = Internal (generated by TV microp), 2 = External (generated by I <sup>2</sup> C device)
	2	, , , ,	(
	1	Clock Type	0 = None (no clock), 1 = OSD, 2 = LED Module
	0	2.00	
Byte 6	7	Not Used	
_,	6	Not Used	
	5	Not Used	
	4	Not Used	
	3	Not Used	
		Not Used	
	2	Not Used	
		Not Used	
	0	เพอเ บระน	

## 8.3.2 Deflection

The Deflection Sub menu contains the following items:

- AKB, ON to enable, OFF to disable the 'black current loop' (AKB = Auto Kine Bias).
- · Brightness, (set Brightness)
- Contrast, (set Contrast)
- "See Vg2 alignment"

#### **Deflection Menu**



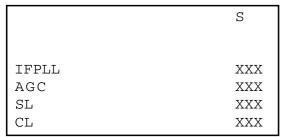
CL 16532138\_020.eps 141201

Figure 8-2

#### 833 Tuner

**Note:** Described alignments are only necessary when the NVM (item 7602) is replaced.

# **Tuner Submenu**



CL 16532108\_010.eps 131201

Figure 8-3

The Tuner Sub menu contains the following items:

- Phase Locked Loop used for FST tuning systems. Adjust the IFPLL value (default value is 30) with the LEFT/RIGHT cursor keys.
- (AGC take over point) asis Emphasistype= 'Bold'>Set the
  external pattern generator to a colour bar video signal and
  connect the RF output to aerial input. Set amplitude to 10
  mV and set frequency to 475.25 MHz (PAL/SECAM) or
  61.25 MHz (NTSC). Connect a DC multimeter to pin 1 of
  the tuner (item 1000 on the main panel).
  - 1. Activate the SDAM.
  - 2. Go to the TUNER sub menu.
  - 3. Select AGC with the UP/DOWN cursor keys.
  - Adjust the AGC-value (default value is 28) with the LEFT/RIGHT cursor keys until the voltage at pin 1 of the tuner lies between 3.8 and 2.3 V.
  - 5. Switch the set to STANDBY.

# · Slicing level

Slicing level for the vertical sync. This adjustment is always set to 0 (for NTSC system only).

## · CL (cathode drive level)

Adjust the CL value (default value is 4) with the LEFT/RIGHT cursor keys.

## 8.3.4 White Tone

## **White Tone Menu**

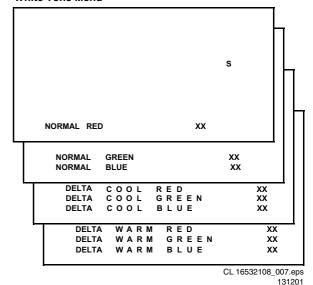


Figure 8-4

In the WHITE TONE sub menu, the values of the black cut off level can be adjusted. Normally, no alignment is needed for the WHITE TONE. You can use the given default values.

The colour temperature mode (NORMAL, COOL and WARM) and the colour (RED, GREEN, and BLUE) can be selected with the UP/DOWN RIGHT/LEFT cursor keys. The value can be changed with the LEFT/RIGHT cursor keys. First, select the values for the NORMAL colour temperature. Then select the values for the DELTA COOL and DELTA WARM mode. After alignment, switch the set to standby, in order to store the alignments.

# Default settings:

- NORMAL (colour temperature = 11500 K):
  - NORMAL RED = 32
  - NORMAL GREEN = 35
  - NORMAL BLUE = 30
- DELTA COOL (colour temperature = 14000 K):
  - DELTA COOL RED = 0
  - DELTA COOL GREEN = -5
  - DELTA COOL BLUE = 5
- DELTA WARM (colour temperature = 8200 K):
  - DELTA WARM RED = 8
  - DELTA WARM GREEN = -3
  - DELTA WARM BLUE = 2

The geometry alignments menu contains several items to align the set, in order to obtain correct picture geometry.

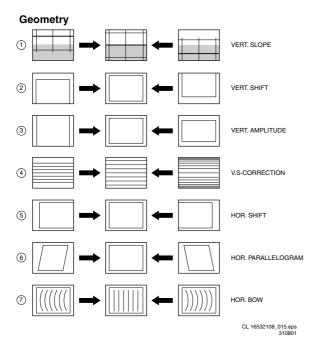


Figure 8-5

Connect an external video pattern generator to the aerial input of the TV-set and input a crosshatch test pattern. Set the generator amplitude to at least 1 mV and set frequency to 475.25 MHz (PAL/SECAM) or 61.25 MHz (NTSC).

- 1. Activate the SDAM menu (see chapter 5).
- 2. Go to the GEOMETRY sub menu.

Now you can perform the following alignments:

• Horizontal Parallelogram (HP)

Align straight vertical lines in the top and the bottom; vertical rotation around the centre.

Horizontal Bow (HB)

Align straight horizontal lines in the top and the bottom; horizontal rotation around the centre.

Horizontal Shift (HS)

Align the horizontal centre of the picture to the horizontal centre of the CRT.

Vertical Slope (VS)

Align the vertical centre of the picture to the vertical centre of the CRT. This is the first of the vertical alignments to perform. For an easy alignment, set SBL to ON.

Vertical Amplitude (VA)

Align the vertical amplitude so that the complete test pattern is visible.

• Vertical S-Correction (SC)

Align the vertical linearity, meaning that vertical intervals of a grid pattern must be equal over the entire screen height.

Vertical Shift (VSH)

Align the vertical centring so that the test pattern is located vertically in the middle. Repeat the 'vertical amplitude' alignment if necessary.

• Service Blanking (SBL)

Switch the blanking of the lower half of the screen ON or OFF (to be used in combination with the vertical slope alignment).

# For EW versions

- Set Horizontal Parallelogram to prevent the picture from slanting to one side.
- Set Horizontal Bow to prevent the top and bottom of picture from bending to the sides.

Alignments

L01H.2E

8.

ENI 40

- Select Vertical Zoom to align the vertical linearity over the entire screen height (for 16: 9 applications only).
- Set Trapezium Correction to align the lines at the vertical sides.
- Select East-West Width and align the picture width until the side castellations disappear.
- Select East-West Parabola / width and align the vertical sides until the sides are straightened.
- Select Upper Corner Parabola to straighten the top of the vertical lines at the sides.
- Select Lower Corner Parabola to straighten the bottom of the vertical lines at the sides.
- Repeat the last 5 steps if necessary.

# Geometry alignments menu

# Table 8-5

	S
SC	XX
SBL	ON/OFF
VS	xx
VSH	xx
VA	xx
HS	xx
HP	xx
НВ	xx

# 9. Circuit Description

Index of this chapter:

- 1. Introduction
- 2. Audio Signal Processing
- 3. Video Signal Processing
- 4. Synchronisation
- 5. Deflection
- 6. Power Supply
- 7. Control
- 8. Abbreviations

## Notes:

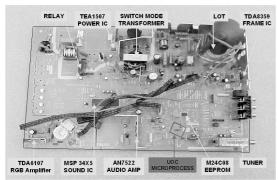
- Figures can deviate slightly from the actual situation, due to different set executions.
- For a good understanding of the following circuit descriptions, please use the block diagram in chapter 6, or the electrical diagrams in chapter 7. Where necessary, you will find a separate drawing for clarification.

## 9.1 Introduction

The L01 chassis is a global TV chassis for the model year 2001 and is used for TV sets with screen sizes from 14" - 21" (small screen) to 21" - 32" (large screen).

The standard architecture consists of a Main panel, a Picture Tube panel, a Side I/O panel (not al executions) and a Top Control panel.

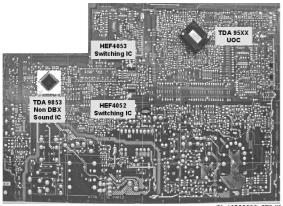
The Main panel consists primarily of conventional components with hardly any surface mounted devices.



CL 16532020\_071.ti 100401

Figure 9-1

The functions for video processing, microprocessor ( $\mu P$ ) and teletext (TXT) decoder are combined in one IC (TDA958xH), the so-called Ultimate One Chip (UOC). This chip is (surface) mounted on the copper side of the main panel.



CL 16532020\_07

Figure 9-2

The L01 is divided into 2 basic systems, i.e. mono and stereo sound. While the audio processing for the mono sound is done in the audio block of the UOC, an external audio processing IC is used for stereo sets.

The tuning system features 100 video channels with on-screen display. The main tuning system uses a tuner, a microcomputer, and a memory IC mounted on the main panel. Also, in some type numbers, an FM radio is implemented with 40 pre-set channels.

The microcomputer communicates with the memory IC, the customer keyboard, remote receiver, tuner, signal processor IC and the audio output IC via the I<sup>2</sup>C bus. The memory IC retains the settings for favourite stations, customer-preferred settings, and service/factory data.

The on-screen graphics and closed caption decoding are done within the microprocessor, and then sent to the signal processor IC to be added to the main signal.

The chassis uses a Switching Mode Power Supply (SMPS) for the main voltage source. The chassis has a 'hot' ground reference on the primary side and a cold ground reference on the secondary side of the power supply and the rest of the chassis.

# 9.2 Audio Signal Processing

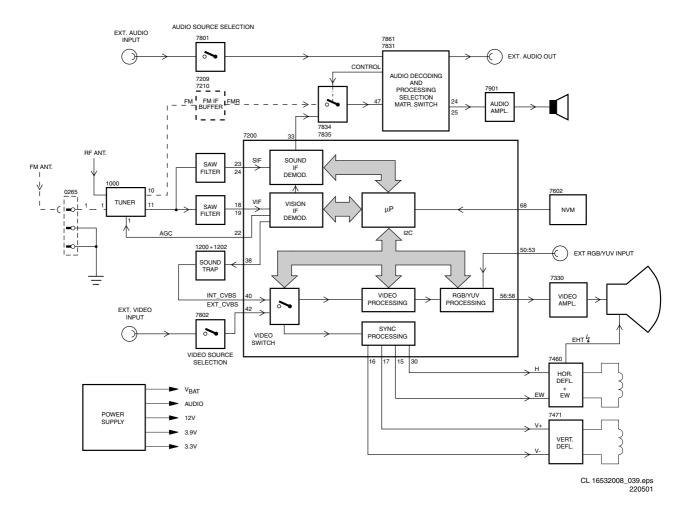
## 9.2.1 Stereo

In stereo sets, the signal goes via the SAW filter (position 1004 in case of QSS demodulation and 1003 in case of Intercarrier demodulation), to the audio demodulator part of the UOC IC7200. The stereo audio output on pin 33 goes, via TS7206, to the stereo decoder 7831.

The switch inside the stereo decoder 7831 selects (via I<sup>2</sup>C) either the internal decoder or an external source.

The NICAM + 2CS AM/FM stereo decoder is an ITT MSP34X5. The output is fed to the to the audio amplifier (AN7522 at position 7901). The volume level is controlled at this IC (pin 9) by a control line (VolumeMute) from the microprocessor. The audio signal from 7901 is then sent to the speaker/headphone output panel.

9.



Circuit Description

Figure 9-3

# 9.2.2 Mono

In mono sets, the signal goes via the SAW filter (position 1004 in case of QSS demodulation and 1003 in case of Intercarrier demodulation), to the audio demodulator part of the UOC

IC7200. The audio output on pin 48 goes directly, via buffer 7943, to the audio amplifier (AN7523 at position 7902). The volume level is controlled at this IC (pin 9) by a 'VolumeMute' control line from the microprocessor. The audio signal from IC7902 is then sent to the speaker/headphone output panel.

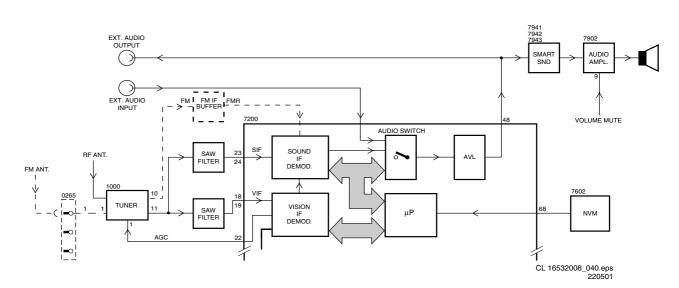


Figure 9-4

# FM radio (if present)

The FM radio uses the 10.7 MHz concept. This SIF frequency is available at pin 10 of the tuner. Via a pre-amplifier (TS7209 and TS7210), the signal is fed for demodulation to either the UOC (for mono FM radio) or by the Micronas MSP34X5 (for stereo FM radio).

L01H.2E

#### **Video Signal Processing** 9.3

#### 9.3.1 Introduction

The video signal-processing path consists of the following parts:

- RF signal processing.
- Video source selection.
- Video demodulation.
- Luminance/Chrominance signal processing.
- RGB control.
- **RGR** amplifier

The processing circuits listed above are all integrated in the UOC TV processor. The surrounding components are for the adaptation of the selected application. The I<sup>2</sup>C bus is for defining and controlling the signals.

#### **RF Signal Processing** 9.3.2

The incoming RF signal goes to the tuner (pos. 1000), where the 38.9 MHz IF signal is developed and amplified. The IF signals then exits the tuner from pin 11 to pass through the SAW filter (position 1002 in case of QSS demodulation and 1003 in case of Intercarrier demodulation). The shaped signal is then applied to the IF processor part of the UOC (pos. 7200). Tuner AGC (Automatic Gain Control) will reduce the tuner gain and thus the tuner output voltage when receiving strong RF signals. Adjust the AGC take-over point via the Service Alignment Mode (SAM). The tuner AGC starts working when the video-IF input reaches a certain input level and will adjust this level via the I<sup>2</sup>C bus. The tuner AGC signal goes to the tuner (pin 1) via the open collector output (pin 22) of the UOC. The IC also generates an Automatic Frequency Control (AFC) signal that goes to the tuning system via the I2C bus, to provide frequency correction when needed.

The demodulated composite video signal is available at pin 38 and then buffered by transistor 7201.

#### 9.3.3 **Video Source Selection**

The Composite Video Blanking Signal (CVBS) from buffer 7201 goes to the audio carrier trap filters (1200 and 1201) to remove the audio signal. The signal then goes to pin 40 of IC7200. The internal input switch selects the following input

- Pin 40: terrestrial CVBS input
- Pin 42: external AV1 CVBS input
- Pin 44: external Side I/O CVBS or AV2 Luminance (Y)
- Pin 45: external AV2 Chrominance (C) input

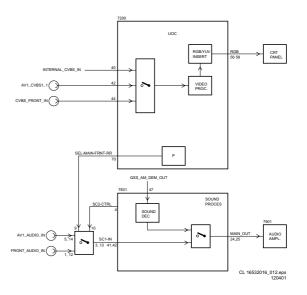


Figure 9-5

Once the signal source is selected, a chroma filter calibration is performed. The received colour burst sub-carrier frequency is used for this. Correspondingly, the chroma band pass filter for PAL processing or the cloche filter for SECAM processing is switched on. The selected luminance (Y) signal is supplied to the horizontal and vertical synchronisation processing circuit and to the luminance processing circuit. In the luminanceprocessing block, the luminance signal goes to the chroma trap filter. This trap is switched 'on' or 'off', depending on the colour burst detection of the chroma calibration circuit.

The group delay correction part can be switched between the BG and a flat group delay characteristic. This has the advantage that in multi-standard receivers no compromise has to be made for the choice of the SAW filter.

#### **Video Demodulation** 9.3.4

The colour decoder circuit detects whether the signal is a PAL, NTSC or SECAM signal. The result is made known to the auto system manager. The PAL/NTSC decoder has an internal clock generator, which is stabilised to the required frequency by using the 12 MHz clock signal from the reference oscillator of the microcontroller/teletext decoder.

The base-band delay line is used to obtain a good suppression of cross colour effects.

The Y signal and the delay line outputs U and V are applied to the luminance/chroma signal processing part of the TV processor.

#### **Luminance/Chrominance Signal Processing** 9.3.5

The output of the YUV separator is fed to the internal YUV switch, which switches between the output of the YUV separator or the external YUV (for DVD or PIP) on pins 51-53. Pin 50 is the input for the insertion control signal called 'FBL-1'. When this signal level becomes higher than 0.9 V (but less than 3 V), the RGB signals at pins 51, 52 and 53 are inserted into the picture by using the internal switches.

Also some picture improvement features are implemented in this part:

- Black stretch This function corrects the black level of incoming signals, which have a difference between the black level and the blanking level. The amount of extension depends upon the difference between actual black level and the darkest part of the incoming video signal level. It is detected by means of an internal capacitor.
- White stretch This function adapts the transfer characteristic of the luminance amplifier in a non-linear way depending on the average picture content of the luminance

- signal. It operates in such a way that maximum stretching is obtained when signals with a low video level are received. For bright pictures, stretching is not active.
- Dynamic skin tone correction This circuit corrects
   (instantaneously and locally) the hue of those colours
   which are located in the area in the UV plane that matches
   the skin tone. The correction is dependent on the
   luminance, saturation and distance to the preferred axis.

The YUV signal is then fed to the colour matrix circuit, which converts it to R, G and B signals.

The OSD/TXT signal from the microprocessor is mixed with the main signal at this point, before being output to the CRT board (pins 56. 57 and 58).

#### 9.3.6 RGB Control

The RGB control circuit enables the picture parameters contrast, brightness and saturation to be adjusted, by using a combination of the user menus and the remote control. Additionally automatic gain control for the RGB signals via cutoff stabilisation is achieved in this functional block to obtain an accurate biasing of the picture tube. Therefor this block inserts the cut-off point measuring pulses into the RGB signals during the vertical retrace period.

The following additional controls are used:

- Black current calibration loop Because of the 2-point black current stabilisation circuit, both the black level and the amplitude of the RGB output signals depend on the drive characteristics of the picture tube. The system checks whether the returning measuring currents meet the requirements, and adapt the output level and gain of the circuit when necessary. After stabilisation of the loop, the RGB drive signals are switched on. The 2-point black level system adapts the drive voltage for each cathode in such a way that the two measuring currents have the right value. This is done with the measurement pulses during the frame flyback. During the first frame, three pulses with a current of 8  $\mu\text{A}$  are generated to adjust the cut off voltage. During the second frame, three pulses with a current of 20  $\mu A$  are generated to adjust the 'white drive'. This has as a consequence, that a change in the gain of the output stage will be compensated by a gain change of the RGB control circuit. Pin 55 (BLKIN) of the UOC is used as the feedback input from the CRT base panel.
- Blue stretch This function increases the colour temperature of the bright scenes (amplitudes which exceed a value of 80% of the nominal amplitude). This effect is obtained by decreasing the small signal gain of the red and green channel signals, which exceed this 80% level.
- Beam current limiting A beam current limiting circuit inside the UOC handles the contrast and brightness control for the RGB signals. This prevents the CRT from being overdriven, which could otherwise cause serious damage in the line output stage. The reference used for this purpose is the DC voltage on pin 54 (BLCIN) of the TV processor. Contrast and brightness reduction of the RGB output signals is therefore proportional to the voltage present on this pin. Contrast reduction starts when the voltage on pin 54 is lower than 2.8 V. Brightness reduction starts when the voltage on pin 54 is less than 1.7 V. The voltage on pin 54 is normally 3.3 V (limiter not active). During set switch 'off', the black current control circuit generates a fixed beam current of 1 mA. This current ensures that the picture tube capacitance is discharged. During the switch-off period, the vertical deflection is placed in an over-scan position, so that the discharge is not visible on the screen.

# 9.3.7 RGB Amplifier

From outputs 56, 57 and 58 of IC7200, the RGB signals are applied to the analogue output amplifiers on the CRT panel. The R-signal is amplified by a circuit built around transistors TS7311, 7312 and 7313, which drives the picture tube cathodes.

The supply voltage for the amplifier is +160 V and is derived from the line output stage.

# 9.4 Synchronisation

Inside IC7200 (part D), the vertical and horizontal sync-pulses are separated. These 'H' and 'V' signals are synchronised with the incoming CVBS signal. They are then fed to the H- and V-drive circuits and to the OSD/TXT circuit for synchronisation of the On Screen Display and Teletext (or Closed Caption) information.

#### 9.5 Deflection

## 9.5.1 Horizontal Drive

The horizontal drive signal is obtained from an internal VCO, which is running at twice the line frequency. This frequency is divided by two, to lock the first control loop to the incoming signal.

When the IC is switched 'on', the 'Hdrive' signal is suppressed until the frequency is correct.

The 'Hdrive' signal is available at pin 30. The 'Hflybk' signal is fed to pin 31 to phase lock the horizontal oscillator, so that TS7401 cannot switch 'on' during the flyback time.

The 'EWdrive' signal for the E/W circuit (if present) is available on pin 15, where it drives transistor 7400 to make linearity corrections in the horizontal drive.

When the set is switched on, the '+8V' voltage goes to pin 9 of IC7200. The horizontal drive starts up in a soft start mode. It starts with a very short  $T_{\text{ON}}$  time of the horizontal output transistor. The  $T_{\text{OFF}}$  of the transistor is identical to the time in normal operation. The starting frequency during switch on is therefore about 2 times higher than the normal value. The 'on' time is slowly increased to the nominal value in 1175 ms. When the nominal value is reached, the PLL is closed in such a way that only very small phase corrections are necessary.

The 'EHTinformation' line on pin 11 is intended to be used as a 'X-ray' protection. When this protection is activated (when the voltage exceeds 6 V), the horizontal drive (pin 30) is switched 'off' immediately. If the 'H-drive' is stopped, pin 11 will become low again. Now the horizontal drive is again switched on via the slow start procedure.

The 'EHTinformation' line (Aquadag) is also fed back to the UOC IC7200 pin 54, to adjust the picture level in order to compensate for changes in the beam current.

The filament voltage is monitored for 'no' or 'excessive' voltage. This voltage is rectified by diode 6413 and fed to the emitter of transistor 7405. If this voltage goes above 6.8 V, transistor 7405 will conduct, making the 'EHTO' line 'high'. This will immediately switch off the horizontal drive (pin 30) via the slow stop procedure.

The horizontal drive signal exits IC7200 at pin 30 and goes to 7401, the horizontal driver transistor. The signal is amplified and coupled to the base circuit of 7402, the horizontal output transistor. This will drive the line output transformer (LOT) and associated circuit. The LOT provides the extra high voltage (EHT), the VG2 voltage and the focus and filament voltages for the CRT, while the line output circuit drives the horizontal deflection coil.

# 9.5.2 Vertical Drive

A divider circuit performs the vertical synchronisation. The vertical ramp generator needs an external resistor (R3245, pin 20) and capacitor (C2244, pin 21). A differential output is available at pins 16 and 17, which are DC-coupled with the vertical output stage.

To avoid damage of the picture tube when the vertical deflection fails, the 'V\_GUARD' output is fed to the beam current limiting input. When a failure is detected, the RGB-outputs are blanked. When no vertical deflection output stage is connected, this guard circuit will also blank the output signals.

These 'V\_DRIVE+' and 'V\_DRIVE-' signals are applied to the input pins 7 and 1 of IC7471 (vertical deflection amplifier). These are voltage driven differential inputs. As the driver device (IC7200) delivers output currents, R3474 and R3479 convert them to voltage. The differential input voltage is compared with the voltage across measuring resistor R3471 that provides internal feedback information. The voltage across this measuring resistor is proportional to the output current, which is available at pin 5 where it drives the vertical deflection coil (connector 0222).

IC7471 is supplied by +/-13 V. The vertical flyback voltage is generated at pin 3.

# 9.6 Power Supply

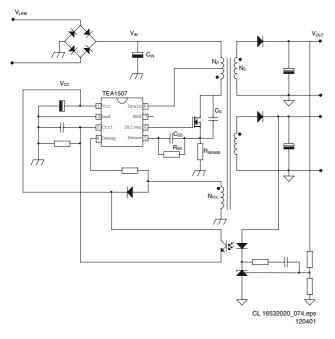


Figure 9-6

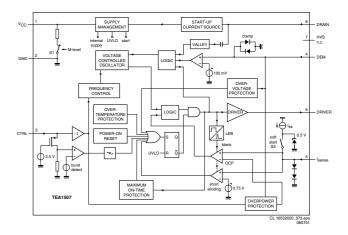


Figure 9-7

#### 9.6.1 Introduction

The supply is a Switching Mode Power Supply (SMPS). The frequency of operation varies with the circuit load. This 'Quasi-Resonant Flyback' behaviour has some important benefits compared to a 'hard switching' fixed frequency Flyback converter. The efficiency can be improved up to 90%, which results in lower power consumption. Moreover the supply runs cooler and safety is enhanced.

The power supply starts operating when a DC voltage goes from the rectifier bridge via T5520, R3532 to pin 8. The operating voltage for the driver circuit is also taken from the 'hot' side of this transformer.

The switching regulator IC7520 starts switching the FET 'on' and 'off', to control the current flow through the primary winding of transformer 5520. The energy stored in the primary winding during the 'on' time is delivered to the secondary windings during the 'off' time.

The 'MainSupply' line is the reference voltage for the power supply. It is sampled by resistors 3543 and 3544 and fed to the input of the regulator 7540/6540. This regulator drives the feedback optocoupler 7515 to set the feedback control voltage on pin 3 of 7520.

The power supply in the set is 'on' any time AC power goes to the set.

# Derived Voltages

The voltages supplied by the secondary windings of T5520 are:

- 'MainAux' for the audio circuit (voltage depends on set execution, see table below).
- 3.3 V and 3.9 V for the microprocessor and
- 'MainSupply' for the horizontal output (voltage depends on set execution, see table below).

Other supply voltages are provided by the LOT. It supplies  $\pm 50$  V (only for large screen sets),  $\pm 13$  V,  $\pm 8$  V,  $\pm 5$  V and a  $\pm 200$  V source for the video drive. The secondary voltages of the LOT are monitored by the 'EHTinformation' lines. These lines are fed to the video processor part of the UOC IC7200 on pins 11 and 34

This circuit will shut 'off' the horizontal drive in case of overvoltage or excessive beam current.

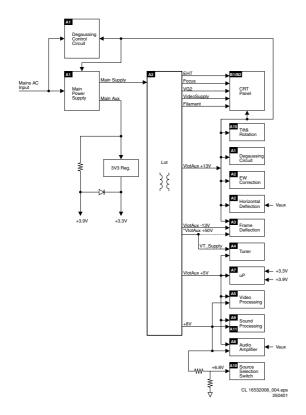


Figure 9-8

	Power supply voltages L01									
Screen Size	Voltage name	Meas. point	Value	Remark						
14",	MainSupply	P6 (C2561)	95 V							
17", 20",	MainAux	P5 (C2564)	11 V	Stereo 2x3 W and Mono 1x2 W, 3 W, 4 W						
21"			10 V	Stereo 2x1 W and Mono 1x1 W						
All others	MainSupply	P6 (C2561)	130 V	21/25/29RF and 25/27/32/35V						
			143 V	25/28/29SF, 25/28BLD, 25/28BLS, 28/32WS, 24/28BLDWS & BLSWS						
	MainAux	P5 (C2564)	12 V	Stereo 2x1 W, 3 W, 5 W						
			10 V	Mono 1x1 W						

CL 16532008\_063.pd

Figure 9-9

# Degaussing

When the set is switched on, the degaussing relay 1515 is immediately activated as transistor 7580 is conducting. Due to the RC-time of R3580 and C2580, it will last about 3 to 4 seconds before transistor 7580 is switched off.

# 9.6.2 Basic IC Functionality

For a clear understanding of the Quasi-Resonant behaviour, it is possible to explain it by a simplified circuit diagram (see Figure below). In this circuit diagram, the secondary side is transferred to the primary side and the transformer is replaced by an inductance  $L_P,\,C_D$  is the total drain capacitance including the resonance capacitor  $C_R,\,$  parasitic output capacitor  $C_{OSS}$  of the MOSFET and the winding capacitance  $C_W$  of the transformer. The turns ratio of the transformer is represented by n  $(N_P/N_S)$ .

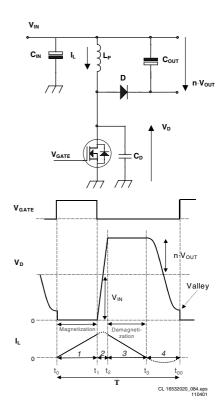


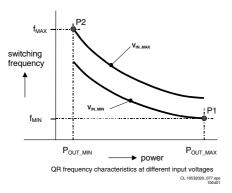
Figure 9-10

In the Quasi-Resonant mode each period can be divided into four different time intervals, in chronological order:

- Interval 1: t0 < t < t1 primary stroke At the beginning of the first interval, the MOSFET is switched 'on' and energy is stored in the primary inductance (magnetisation). At the end, the MOSFET is switched 'off' and the second interval starts.
- Interval 2: t1 < t < t2 commutation time In the second interval, the drain voltage will rise from almost zero to V<sub>IN</sub>+n•(V<sub>OUT</sub> +V<sub>F</sub>). V<sub>F</sub> is the forward voltage drop of de diode that will be omitted from the equations from now on. The current will change its positive derivative, corresponding to V<sub>IN</sub>/L<sub>P</sub>, to a negative derivative, corresponding to -n•V<sub>OUT</sub> /L<sub>P</sub>.
- Interval 3: t2 < t < t3 secondary stroke In the third interval, the stored energy is transferred to the output, so the diode starts to conduct and the inductive current I<sub>L</sub> will decrease. In other words, the transformer will be demagnetised. When the inductive current has become zero the next interval begins.
- Interval 4: t3 < t < t00 resonance time In the fourth interval, the energy stored in the drain capacitor C<sub>D</sub> will start to resonate with the inductance L<sub>P</sub>. The voltage and current waveforms are sinusoidal waveforms. The drain voltage will drop from V<sub>IN</sub>+n•V<sub>OUT</sub> to V<sub>IN</sub>-n•V<sub>OUT</sub>.

# Frequency Behaviour

The frequency in the QR-mode is determined by the power stage and is not influenced by the controller (important parameters are  $L_{\rm P}$  and  $C_{\rm D}$ ). The frequency varies with the input voltage  $V_{\rm IN}$  and the output power  $P_{\rm OUT}.$  If the required output power increases, more energy has to be stored in the transformer. This leads to longer magnetising  $t_{\rm PRIM}$  and demagnetising  $t_{\rm SEC}$  times, which will decrease the frequency. See the frequency versus output power characteristics below. The frequency characteristic is not only output power-, but also input voltage dependent. The higher the input voltage, the smaller  $t_{\rm PRIM}$ , so the higher the frequency will be.



L01H.2E

Figure 9-11

Point P1 is the minimum frequency f<sub>MIN</sub> that occurs at the specified minimum input voltage and maximum output power required by the application. Of course the minimum frequency has to be chosen above the audible limit (>20 kHz).

# Start-up Sequence

When the rectified AC voltage  $V_{\text{IN}}$  (via the centre tap connected to pin 8) reaches the Mains dependent operation level (Mlevel: between 60 and 100 V), the internal 'Mlevel switch' will be opened and the start-up current source is enabled to charge capacitor C2521 at the V<sub>CC</sub> pin as shown below.

The 'soft start' switch is closed when the V<sub>CC</sub> reaches a level of 7 V and the 'soft start' capacitor  $\mathrm{C}_{\mathrm{SS}}\,$  (C2522, between pin 5 and the sense resistor R3526), is charged to 0.5 V. Once the  $V_{CC}$  capacitor is charged to the start-up voltage  $V_{CC}$ -

start (11 V), the IC starts driving the MOSFET. Both internal current sources are switched 'off' after reaching this start-up voltage. Resistor  $\rm \textit{R}_{SS}\,$  (3524) will discharge the 'soft start' capacitor, such that the peak current will slowly increase. This to prevent 'transformer rattle'.

During start-up, the V<sub>CC</sub> capacitor will be discharged until the moment that the primary auxiliary winding takes over this voltage.

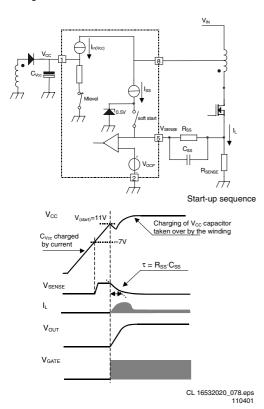


Figure 9-12

The moment that the voltage on pin 1 drops below the 'under voltage lock out level (UVLO =  $\pm$  9 V), the IC will stop switching and will enter a safe restart from the rectified mains voltage.

#### Operation

The supply can run in three different modes depending on the output power:

- Quasi-Resonant mode (QR) The QR mode, described above, is used during normal operation. This will give a
- Frequency Reduction mode (FR) The FR mode (also called VCO mode) is implemented to decrease the switching losses at low output loads. In this way the efficiency at low output powers is increased, which enables power consumption smaller than 3 W during stand-by. The voltage at the pin 3 (Ctrl) determines where the frequency reduction starts. An external Ctrl voltage of 1.425 V corresponds with an internal VCO level of 75 mV. This fixed VCO level is called  $V_{\text{VCO},\text{start}}$  . The frequency will be reduced in relation to the VCO voltage between 75 mV and 50 mV (at levels larger than 75 mV, Ctrl voltage < 1.425V, the oscillator will run on maximum frequency  $f_{oscH} = 175$ kHz typically). At 50 mV ( $V_{\text{VCO,max}}$ ) the frequency is reduced to the minimum level of 6 kHz. Valley switching is still active in this mode.
- Minimum Frequency mode (MinF) At VCO levels below 50 mV, the minimum frequency will remain on 6 kHz, which is called the MinF mode. Because of this low frequency, it is possible to run at very low loads without having any output regulation problems.

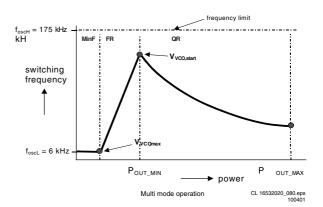


Figure 9-13

## Safe-Restart Mode

This mode is introduced to prevent the components from being destroyed during eventual system fault conditions. It is also used for the Burst mode. The Safe-Restart mode will be entered if it is triggered by one of the following functions:

- Over voltage protection,
- Short winding protection,
- Maximum 'on time' protection,
- V<sub>CC</sub> reaching UVLO level (fold back during overload),
- Detecting a pulse for Burst mode,
- Over temperature protection.

When entering the Safe-Restart mode, the output driver is immediately disabled and latched. The V<sub>CC</sub> winding will not charge the  ${\rm V}_{\rm CC}$  capacitor anymore and the  ${\rm V}_{\rm CC}$  voltage will drop until UVLO is reached. To recharge the  $V_{\text{CC}}$  capacitor, the internal current source  $(I_{(restart)(VCC)})$  will be switched 'on' to initiate a new start-up sequence as described before. This Safe-Restart mode will persist until the controller detects no faults or burst triggers.

# Standby

The set goes to Standby in the following cases:

- After pressing the 'standby' key on the remote control.
- When the set is in protection mode.

In Standby, the power supply works in 'burst mode'. Burst mode can be used to reduce the power consumption below 1 W at stand-by. During this mode, the controller is active (generating gate pulses) for only a short time and for a longer time inactive waiting for the next burst cycle.

In the active period the energy is transferred to the secondary and stored in the buffer capacitor  $C_{\text{STAB}}$  in front of the linear stabiliser (see Figure below). During the inactive period, the load (e.g. microprocessor) discharges this capacitor. In this mode, the controller makes use of the Safe-Restart mode.

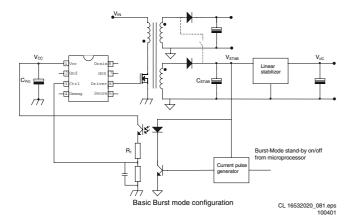


Figure 9-14

The system enters burst mode standby when the microprocessor activates the 'Stdby\_con' line. When this line is pulled high, the base of TS7541 is allowed to go high. This is triggered by the current from collector TS7542. When TS7541 turns 'on', the opto-coupler (7515) is activated, sending a large current signal to pin 3 (Ctrl). In response to this signal, the IC stops switching and enters a 'hiccup' mode. This burst activation signal should be present for longer than the 'burst blank' period (typically 30  $\mu$ s): the blanking time prevents false burst triggering due to spikes.

Burst mode standby operation continues until the microcontroller pulls the 'Stdby\_con' signal low again. The base of TS7541 is unable to go high, thus cannot turn 'on'. This will disable the burst mode. The system then enters the start-up sequence and begins normal switching behaviour.

For a more detailed description of one burst cycle, three time intervals are defined:

- t1: Discharge of V<sub>CC</sub> when gate drive is active During the first interval, energy is transferred, which result in a rampup of the output voltage (V<sub>STAB</sub>) in front of the stabiliser. When enough energy is stored in the capacitor, the IC will be switched 'off' by a current pulse generated at the secondary side. This pulse is transferred to the primary side via the opto coupler. The controller will disable the output driver (safe restart mode) when the current pulse reaches a threshold level of 16 mA into the Ctrl pin. A resistor R<sub>1</sub> (R3519) is placed in series with the opto coupler, to limit the current going into the Ctrl pin. Meanwhile the V<sub>CC</sub> capacitor is discharged but has to stay above V<sub>UVLO</sub>.
- t2: Discharge of V<sub>CC</sub> when gate drive is inactive During the second interval, the V<sub>CC</sub> is discharged to V<sub>UVLO</sub>. The output voltage will decrease depending on the load.
- t3: Charge of V<sub>CC</sub> when gate drive is inactive The third interval starts when the UVLO is reached. The internal current source charges the V<sub>CC</sub> capacitor (also the soft start capacitor is recharged). Once the V<sub>CC</sub> capacitor is charged to the start-up voltage, the driver is activated and a new burst cycle is started.

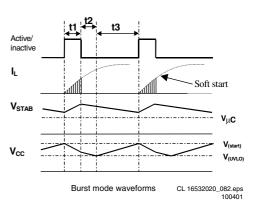


Figure 9-15

## 9.6.3 Protection Events

The SMPS IC7520 has the following protection features:

#### Demagnetisation sense

This feature guarantees discontinuous conduction mode operation in every situation. The oscillator will not start a new primary stroke until the secondary stroke has ended. This is to ensure that FET 7521 will not turn on until the demagnetisation of transformer 5520 is completed. The function is an additional protection feature against:

- · saturation of the transformer,
- damage of the components during initial start-up,
- an overload of the output.

The demag(netisation) sense is realised by an internal circuit that guards the voltage (Vdemag) at pin 4 that is connected to  $V_{CC}$  winding by resistor  $R_1$  (R3522). The Figure below shows the circuit and the idealised waveforms across this winding.

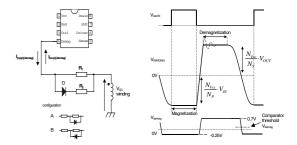


Figure 9-16

# Over Voltage Protection

The Over Voltage Protection ensures that the output voltage will remain below an adjustable level. This works by sensing the auxiliary voltage via the current flowing into pin 4 (DEM) during the secondary stroke. This voltage is a well-defined replica of the output voltage. Any voltage spikes are averaged by an internal filter.

If the output voltage exceeds the OVP trip level, the OVP circuit switches the power MOSFET 'off'.

Next, the controller waits until the 'under voltage lock out' level (UVLO =  $\pm\,9$  V) is reached on pin 1 (V<sub>CC</sub>). This is followed by a safe restart cycle, after which switching starts again. This process is repeated as long as the OVP condition exists. The output voltage, at which the OVP function trips, is set by the demagnetisation resistor R3522.

## **Over Current Protection**

The internal OCP protection circuit limits the 'sense' voltage on pin 5 to an internal level.

## **Over Power Protection**

During the primary stroke, the rectified AC input voltage is measured by sensing the current drawn from pin 4 (DEM). This current is dependent on the voltage on pin 9 of transformer 5520 and the value of R3522. The current information is used to adjust the peak drain current, which is measured via pin I<sub>SENSE</sub>.

## **Short Winding Protection**

If the 'sense' voltage on pin 5 exceeds the short winding protection voltage (0.75 V), the converter will stop switching. Once  $V_{\rm CC}$  drops below the UVLO level, capacitor C2521 will be recharged and the supply will start again. This cycle will be repeated until the short circuit is removed (safe restart mode). The short winding protection will also protect in case of a secondary diode short circuit.

This protection circuit is activated after the leading edge blanking time (LEB).

#### LEB time

The LEB (Leading Edge Blanking) time is an internally fixed delay, preventing false triggering of the comparator due to current spikes. This delay determines the minimum 'on' time of the controller.

# Over Temperature protection

When the junction temperature exceeds the thermal shutdown temperature (typ.  $140^{\circ}$  C), the IC will disable the driver. When the  $V_{CC}$  voltage drops to UVLO, the  $V_{CC}$  capacitor will be recharged to the  $V_{(start)}$  level. If the temperature is still too high, the  $V_{CC}$  voltage will drop again to the UVLO level (Safe-Restart mode). This mode will persist until the junction temperature drops 8 degrees typically below the shutdown temperature.

#### Mains dependent operation enabling level

To prevent the supply from starting at a low input voltage, which could cause audible noise, a mains detection is implemented (Mlevel). This detection is provided via pin 8, that detects the minimum start-up voltage between 60 and 100 V. As previous mentioned, the controller is enabled between 60 and 100 V. An additional advantage of this function is the protection against a disconnected buffer capacitor ( $C_{\rm IN}$ ). In this case, the supply will not be able to start-up because the  $V_{\rm CC}$  capacitor will not be charged to the start-up voltage.

# 9.7 Control

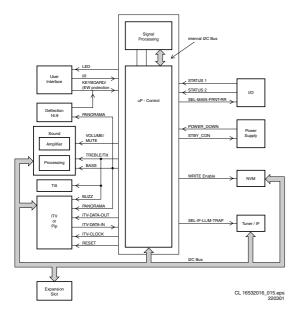


Figure 9-17

## 9.7.1 Introduction

The microprocessor part of the UOC has the complete control and teletext on board. User menu, Service Default Mode, Service Alignment Mode and Customer Service Mode are generated by the  $\mu P.$  Communication to other ICs is done via the  $l^2 C\text{-}bus.$ 

#### 9.7.2 I<sup>2</sup>C-Bus

The main control system, which consists of the microprocessor part of the UOC (7200), is linked to the external devices (tuner, NVM, MSP, etc) by means of the I<sup>2</sup>C-bus. An internal I<sup>2</sup>C-bus is used to control other signal processing functions, like video processing, sound IF, vision IF, synchronisation, etc.

#### 9.7.3 User Interface

There are two control signals, called 'KEYBOARD\_protn' and 'IR'. Users can interact either through the Remote Control transmitter, or by activation of the appropriate keyboard buttons.

The L01 uses a remote control with RC5 protocol. The incoming signal is connected to pin 67 of the UOC. The 'Top Control' keyboard, connected to UOC pin 80, can also control the set. Button recognition is done via a voltage divider. The 'KEYBOARD\_protn' line, also serves to detect faults in the E/W circuit, which would require the  $\mu P$  to shut down the set (by forcing the power supply in standby mode).

The front LED (6691) is connected to an output control line of the microprocessor (pin 5). It is activated to provide the user information about whether or not the set is working correctly (e.g., responding to the remote control or fault condition)

# 9.7.4 Sound Interface

There are three control signals, called 'Volume\_Mute', 'Treble\_Buzzer\_Hosp\_app' and 'Bass\_panorama'.

The 'Volume\_Mute' line controls the sound level output of the audio amplifier or to mute it in case of no video identification or from user command. This line also controls the volume level during set switch 'on' and 'off' (to prevent audio plop).

The 'Treble' and 'Bass' lines have another functionality:

- The 'Bass\_panorama' line is used to switch the panorama mode in widescreen sets (to fit 4:3 pictures into a 16:9 display, it is possible to apply a panoramic horizontal distortion, to make a screen-fitting picture without black sidebars or lost video).
- The 'Treble\_Buzzer\_Hosp\_app' is used in ITV applications for other feautures, and in widescreen sets to enable the 'Tilt' feature (via R3172 on diagram A8) in the deflection part.

# 9.7.5 In- and Output Selection

For the control of the input and output selections, there are three lines:

- STATUS1 This signal provides information to the microprocessor on whether a video signal is available on the SCART1 AV input and output port.
  - 0 to 2 V: INTERNAL 4:3
  - 4.5 to 7 V: EXTERNAL 16:9
  - 9.5 to 12 V: EXTERNAL 4:3
- STATUS2 This signal provides information to the microprocessor on whether a video signal is available on the SCART2 AV input and output port (signal is low). For sets with an SVHS input, it provides the additional information if a Y/C or CVBS source is present (signal is high). The presence of an external Y/C source makes this line 'high' while a CVBS source makes the line 'low'.
  - 0 to 2 V: INTERNAL 4:3
  - 4.5 to 7 V: EXTERNAL 16:9

- 9.5 to 12 V: EXTERNAL 4:3
- SEL-MAIN-FRNT-RR This is the 'source select control' signal from the microprocessor. This control line is under user control or can be activated by the other two control

# 9.7.6 Power Supply Control

The microprocessor part is supplied with 3.3 V and 3.9 V both derived from the 'MainAux' voltage via a 3V3 stabiliser (7560) and a diode.

Two signals are used to control the power supply:

- **Stdby con** This signal is generated by the microprocessor when over-current takes place at the 'MainAux' line. This is done to enable the power supply into standby burst mode, and to enable this mode during a protection. This signal is 'low' under normal operation conditions and goes to 'high' (3.3 V) under 'standby' and 'fault' conditions.
- POWER\_DOWN This signal is generated by the power supply. Under normal operating conditions this signal is 'high' (3.3 V). During 'standby' mode, this signal is a pulse train of approx. 10 Hz and a 'high' duration of 5 ms. It is used to give information to the UOC about the fault condition in the Audio amplifier supply circuit. This information is generated by sensing the current on the 'MainAux' line (using voltage drop across R3564 to trigger TS7562). This signal goes 'low' when the DC-current on the 'MainAux' line exceeds 1.6 - 2.0 A. It is also used to give an early warning to the UOC about a power failure. Then the information is used to mute the sound amplifier to prevent a switch off noise and to solve the switch-off spot.

#### 9.7.7 Tuner IF

Pin 3 of the UOC (SEL-IF-LL'\_M-TRAP), is an output pin to switch the SAW-filter to the appropriate system.

- If UOC pin 3 is 'low', the selected system is:
  - West Europe: PAL B/G, I, SECAM L/L'
  - East Europe: PAL B/G
  - Asia Pacific: NTSC M
- If UOC pin 3 is 'high', the selected system is:
  - West Europe: SECAM L', L'-NICAM
  - East Europe: PAL D/K
  - Asia Pacific: PAL B/G, D/K, I

Note: For West Europe, two separate SAW filters (1002 and 1004) are used for video and audio (Quasi Split Sound demodulation). For East Europe, one SAW filter (1003) is used for both (Intercarrier demodulation).

## 9.7.8 Protection Events

Several protection events are controlled by the UOC:

- **BC protection**, to protect the picture tube from a too high beam current. The UOC has the capability of measuring the normal back level current during the vertical flyback. So if for some reason the CRT circuit is malfunctioning (i.e. high beam current), the normal black current will be out of the 75 µA range, and the UOC will trigger the power supply to shut down. However, this is a high beam-current situation, the TV screen will be bright white before the set is shut down.
- I2C protection, to check whether all I2C IC's are functioning.

In case one of these protections is activated, the set will go into 'standby'. The 'on' and 'standby' LEDs are controlled via the UOC.

#### Abbreviation list 9.8

2CS	2 Carrier (or Channel) Stereo
ACI	Automatic Channel Installation:

algorithm that installs TV sets directly from cable network by means of a

predefined TXT page

ADC Analogue to Digital Converter

Automatic Frequency Control: control **AFC** 

signal used to tune to the correct

frequency

AFT Automatic Fine Tuning

AGC Automatic Gain Control: algorithm that

controls the video input of the

featurebox

ΑM Amplitude Modulation

AΡ Asia Pacific

Aspect Ratio: 4 by 3 or 16 by 9 AR ATS **Automatic Tuning System** ΑV External Audio Video AVL Automatic Volume Level **BC-PROT Beam Current Protection BCL** Beam Current Limitation Monochrome TV system. Sound B/G

> carrier distance is 5.5 MHz Black current informationrmation

**BLC-INFORMATION** 

DBX

**BTSC Broadcast Television Standard** 

> Committee. Multiplex FM stereo sound system, originating from the USA and used e.g. in LATAM and AP-NTSC

countries

**B-TXT** Blue teletext **Closed Caption** CC ComPair Computer aided rePair

Cathode Ray Tube or picture tube CRT

CSM Customer Service Mode CTI Colour Transient Improvement:

manipulates steepness of chroma

transients

**CVBS** Composite Video Blanking and

Synchronisation

Digital to Analogue Converter DAC Dynamic Bass Enhancement: extra DBE

low frequency amplification Dynamic Bass Expander

Monochrome TV system. Sound D/K

carrier distance is 6.5 MHz

DFU Direction For Use: description for the

end user

Dynamic Noise Reduction DNR Digital Signal Processing DSP

DST Dealer Service Tool: special remote

control designed for dealers to enter

e.g. service mode DVD Digital Versatile Disc **EEPROM** Electrically Erasable and

Programmable Read Only Memory

FHT Extra High Tension **EHT-INFORMATION** Extra High Tension

informationrmation

ΕU Europe

ΕW East West, related to horizontal

deflection of the set

**EXT** 

External (source), entering the set via

SCART or Cinch **FBL** Fast Blanking: DC signal

accompanying RGB signals

**FILAMENT** Filament of CRT **FLASH** Flash memory FΜ Field Memory FΜ Frequency Modulation

Horizontal Acquisition: horizontal sync HA

pulse coming out of the HIP

L01H.2E Circuit Description EN 60 9.

Horizontal Flyback Pulse: horizontal HFB sync pulse from large signal deflection ΗP Headphone Colour phase control for NTSC (not Hue the same as 'Tint') Monochrome TV system. Sound carrier distance is 6.0 MHz I2C Integrated IC bus IF Intermediate Frequency IIC Integrated IC bus Interlaced Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker. ITV Institutional TV LATAM Latin America Light Emitting Diode LED L/L' Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I LNA Low Noise Amplifier Large Screen LS LS Loudspeaker LSP Large signal panel M/N Monochrome TV system. Sound carrier distance is 4.5 MHz MSP Multistandard Sound Processor: ITT sound decoder MUTE Mute-Line NC Not Connected Near Instantaneous Compounded NICAM Audio Multiplexing. This is a digital sound system, mainly used in Europe. NTSC National Television Standard Committee. Colour system mainly used in North America and Japan. Colour carrier NTSC M/N = 3.579545 MHz, NTSC 4.43 = 4.433619 MHz (this is a VCR norm, it is not transmitted off-air) NVM Non Volatile Memory: IC containing TV related data e.g. alignments Option Byte OB OC Open Circuit OSD On Screen Display Phase Alternating Line. Colour system PAL mainly used in West Europe (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.575612 MHz and PAL N = 3.582056 MHz) PCB Printed Circuit board PIP Picture In Picture PΠ Phase Locked Loop. Used for e.g. FST tuning systems. The customer can give directly the desired frequency POR Power-On Reset Progressive Scan Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. PTP Picture Tube Panel (or CRT-panel) RAM Random Access Memory RC Remote Control handset RC5

Remote Control system 5, signal from the remote control receiver Red Green Blue Read Only Memory Service Alignment Mode Second Audio Program Sandcastle: pulse derived from sync signals **Short Circuit** Scan Velocity Modulation

RGB

ROM

SAM

SAP SC

S/C

**SCAVEM** 

SCL Serial Clock SDA Serial Data SDM Service Default Mode

**SECAM** SEequence Couleur Avec Memoire.

> Colour system mainly used in France and East Europe. Colour carriers = 4.406250 MHz and 4.250000 MHz Sound Intermediate Frequency

SS Small Screen

**STBY** Standby **SVHS** Super Video Home System

Software SW

SIF

**XTAL** 

THD **Total Harmonic Distortion** 

Teletext TXT Microprocessor μΡ UOC Ultimate One Chip Vertical Acquisition VA

Main supply voltage for the deflection **VBAT** 

stage (mostly 141 V)

V-chip Violence Chip

Video Cassette Recorder **VCR** 

**WYSIWYR** What You See Is What You Record:

record selection that follows main

picture and sound Quartz crystal

YC Luminance (Y) and Chrominance (C)

signal

# 10. Spare Parts List

Mon	o Carrier [A	1-14]	2161 2201	4822 124 12392 4822 126 14585		2508 2515		470pF 10% 1KV 1.5nF 20% 250V
Vario			2202	4822 126 14585	100nF 10% 50V	2516	4822 126 13867	330P 20% 250V
vario	us		2203	4822 126 14585		2520	4822 126 14585	
0127	4822 265 11253	FUSE HOLDER	2204 2205	4822 126 14585 4822 126 14076		2521 2522	4822 124 41751 4822 126 14585	•
0136	4822 492 70788		2206	4822 126 13693		2523	4822 126 13862	
0138 0149	4822 492 70788 3104 311 02651		2207	5322 126 10184		2525		470pF 10% 63V
0152	3139 121 08841		2208 2209	4822 126 14585 4822 124 40769	100nF 10% 50V 4.7μF 20% 100V	2526 2527	5322 122 31647 5322 122 34099	10% 63V 470pF 10% 63V
0153	3104 301 09441		2210		0.47μF 20% 63V	2540	4822 126 13188	
0154 0155	3119 107 17611	TREE ASSY SPEAKER	2211	4822 126 13482		2560	4822 126 13449	
0157	3119 107 17341		2213 2214	5322 122 32654 5322 122 32654		2561 2562	4822 124 42336 5322 122 32331	47μF 20% 160V
0160		CABLE 6P/220/3P	2215	5322 122 32654		2563	5322 121 42386	
0162 0168		CABLE 7P/220/7P CABLE 4P/280/4P	2216	4822 124 80791		2564		2200μF 20% 16V
0172	3104 311 03411		2217 2219	5322 122 32654 4822 126 14076		2565 2566	4822 122 50116 4822 124 40433	470pF 10% 1KV
0173		CABLE 5P/340/5P	2221	4822 126 14585		2567	4822 124 40433	
0174 0211	3119 107 17281 4822 265 20723	CABLE 6P/180/4P	2221	5322 122 32654		2569	5322 122 34099	•
0212	4822 267 10774		2222 2223	4822 122 33177 5322 122 32448		2601 2602	4822 126 14076 5322 122 32531	
0217	2422 025 12482		2225	4822 126 14076		2606	5322 126 10511	
0217 0220	4822 267 10735 2422 025 04851		2226	5322 126 10465		2607	5322 122 32659	
0221	4822 267 10966		2227 2228	5322 126 10223 5322 126 10184		2608 2609	4822 126 14043 5322 122 32659	
0222	2422 025 10646		2229	4822 124 40248	•	2611	4822 126 14043	•
0227 0229	2422 025 16383 4822 267 10735		2230		4.7μF 20% 100V	2612	4822 126 13694	
0231	2422 128 02972		2233 2234	5322 126 10184 4822 126 14585	•	2613 2615	4822 126 13694 5322 126 10511	
0232		HEADPHONE SOCKET	2235	5322 122 32331		2616	4822 126 13482	
0235 0236	4822 267 60385 2422 025 16382		2238	5322 126 10511		2618	4822 126 14043	
0230	2422 025 10362		2239 2240	5322 126 10511		2619 2691	4822 126 14043	
0242	2422 025 17042	CON 7P Male	2240	5322 126 10511 4822 126 13344		2801	4822 124 40207	100μF 20% 25V 22μF 50V
0243 0246		CON 6P Female	2242	4822 126 14043		2804	2020 552 96305	
0246	4822 267 10734 4822 267 10735		2243 2244	4822 122 33177		2805 2831	2020 552 96305	
0251	4822 267 10565		2244	5322 121 42386 4822 126 14076		2832	5322 122 32447 5322 122 32447	•
0259	2422 025 15848		2246	4822 124 40769	4.7μF 20% 100V	2833	4822 126 13692	47pF 1% 63V
0262 0265	4822 267 10748	CON 3P Female 3P	2247 2248	4822 124 80791	•	2834	5322 122 32268	
0285	4822 267 10676	1P	2249	5322 122 32654 5322 122 32654		2835 2836	4822 122 33575 4822 126 13344	
1000 1000		TUN V+U PLL IEC TUNER UR1316R/A I -3	2250	4822 124 22652	2.2μF 20% 50V	2837	4822 124 40769	4.7μF 20% 100V
1000	4822 242 81436		2252 2253	5322 126 10511 5322 126 10511		2838 2839	4822 126 13692 4822 126 13692	
1004	2422 549 44341	FILTER 38MHz	2254	4822 051 20008		2840	4822 126 14585	
1200	4822 242 81712	OFWK9656M	2254	5322 122 32531		2841	4822 124 40248	
1203		SFE10,7MS3-A	2400 2400	4822 121 43901 4822 121 51655		2842 2843	4822 126 14585 4822 124 40248	100nF 10% 50V 10uF 20% 63V
1500	2422 086 10914		2404	2022 333 00167		2844	4822 124 40248	10μF 20% 63V
1600 1601	4822 276 13775 4822 276 13775		2404 2404	4822 121 10518		2845 2846		100nF 10% 50V
1602	4822 276 13775	SWITCH	2404	4822 121 10781 5322 126 10511		2849	5322 126 10511	100μF 20% 25V 1nF 5% 50V
1603 1660	4822 276 13775		2407	4822 121 70434	11nF 5% 1.6KV	2850	5322 126 10511	1nF 5% 50V
1831		Chrystal 12MHz Christal 18.432MHz	2407 2408	4822 121 70649 4822 122 30103	9.1nF 5% 1.6KV	2851 2852	2020 552 96305 5322 126 10511	
			2408	4822 122 33449		2853	2020 552 96305	
⊣⊢			2409		47μF 20% 160V	2854	5322 126 10511	
0001	5000 100 00050	00 5 50/ 50//	2410 2411	2020 021 91577 5322 121 10472		2855 2856	4822 122 30045 4822 126 13486	
2001 2002	5322 122 32658 5322 122 32658		2412	2222 347 90236		2857	5322 122 33538	
2003	4822 122 33177	•	2413	4822 124 11565		2858	5322 126 10511	
2004	4822 126 13751		2414 2415	4822 124 81145 5322 122 32531	1000μF 20% 16V 100nF 5% 50V	2859 2860	5322 126 10511 4822 126 13695	
2005 2006	4822 124 40248 4822 124 80791	10μF 20% 63V 470μF 20% 16V	2416	4822 126 12239	•	2887	4822 122 33177	
2007		100nF 10% 50V	2416		220pF 10% 1KV	2894	4822 122 33575	
2008		100μF 20% 25V	2416 2417		470pF 10% 2KV 1000μF 20% 16V	2895 2897	5322 116 80853 4822 122 33172	
2009 2010	5322 122 32654 5322 126 10511		2418	4822 122 33177		2898	4822 122 33177	
2101	4822 122 33172		2419	4822 124 22776		2902	4822 124 81144	•
2102	4822 122 33172		2420 2421	4822 124 21913 4822 126 13751		2903 2904	4822 124 21913 4822 126 13482	1μF 20% 63V 470nF 20% 16V
2103 2104	2020 552 96305 4822 122 33172		2422	2020 021 91577		2904	4822 126 14043	
2105	4822 122 33172		2423	4822 124 42127		2905	5322 126 10511	
2106	2020 552 96305		2424 2424	4822 121 43526 5322 121 42465		2906 2907	4822 126 13482 5322 126 10511	470nF 20% 16V
2107 2108	4822 122 33172 4822 122 33172	•	2471	5322 121 42386		2908	4822 124 40248	
2109	2020 552 96305		2472	5322 121 42386		2941	4822 124 40248	•
2110	4822 122 33172		2473 2475	4822 124 40255 5322 122 32268	100μF 20% 63V 470P 5% 63V	2950 2981	5322 122 31863 4822 124 40248	
2111 2112	4822 122 33172 2020 552 96305		2476	4822 121 42408		2982	5322 122 32268	
2113	5322 122 32658	22pF 5% 50V	2477	5322 122 32268		2983	4822 124 40248	
2114 2115	5322 122 32658 5322 122 32658		2500 2501	4822 126 13589 4822 126 14153		2984	5322 122 32268	4/UP 3% 63V
2116	5322 122 32658		2502	4822 126 14153	2.2nF 10% 1KV	$\neg$		
2117	5322 122 32658	22pF 5% 50V	2503 2505	4822 124 12439 4822 126 14153	100μF 20% 400V 2 2nF 10% 1KV			
2118 2120	5322 122 32658 5322 122 32658		2506	4822 126 14153		3000 3001	4822 116 52175	
	3_330		I			3001	4822 116 52175	10022 3 /0 U.3VV

Spare Parts List

3002	4822 117 10833	10k 1% 0.1W	3415	4822 050 11002	1k 1% 0.4W	3630	4822 117 11449	2k2 5% 0.1W
3003	4822 117 11139	1k5 1% 0.1W	3416	4822 052 11398	3Ω9 5% 0.5W	3632	4822 051 20008	jumper
3005	4822 116 52175	100Ω 5% 0.5W	3417	4822 050 23303		3634	4822 116 52175	100Ω 5% 0.5W
3006	4822 117 11449			4822 051 20333		3636	4822 117 11373	
3007	4822 117 11507			4822 117 11507		3681	4822 051 20391	
3008	4822 117 11449		3420	4822 051 20333		3682	4822 051 20332	
3010	4822 051 20008		3421	4822 053 11688		3683	4822 051 20391	
3010		330Ω 1% 1.25W		4822 117 11373		3684	4822 051 20561	
3011		330Ω 1% 1.25W	3423	4822 117 11454		3685	4822 051 20561	
3101 3102	4822 116 83868		3424 3425	4822 116 52175		3686	4822 117 11139	
3102	3198 021 52240 4822 116 83868		3425	4822 116 52238 4822 116 52251		3691 3692		330Ω 1% 1.25W
3103	4822 117 10834			4822 051 20105		3693	4822 051 10102 4822 117 11503	
3104	4822 117 10034		3427	4822 116 52238		3801	4822 116 83872	
3106	3198 021 52240		3428	4822 052 11399		3802	4822 050 11002	
3107	4822 116 83868			4822 116 52269		3803	4822 117 10837	
3108	4822 117 10834			4822 116 52244		3804	4822 117 11149	
3109	4822 116 52201		3431	4822 051 10102		3805	4822 051 10102	
3110	4822 116 52228		3431	4822 051 20562		3806	4822 117 10837	
3111	4822 116 52264		3431	4822 117 11373		3807	4822 117 11149	
3112	4822 117 11507	6k8 1% 0.1W	3432	4822 116 52186	22Ω 5% 0.5W	3808	4822 050 11002	1k 1% 0.4W
3113	4822 116 52201	75Ω 5% 0.5W	3435	4822 100 12159	100k 30%	3809	4822 117 11927	75Ω 1% 0.1W
3114	4822 116 52228			4822 052 10478	4Ω7 5% 0.33W	3831	4822 117 10834	47k 1% 0.1W
3115	4822 116 52201		3471	4822 050 23308		3832	4822 116 52175	
3116	4822 116 52228			4822 050 23908		3833	4822 116 52175	
3117	4822 116 52201		3471	4822 050 24708		3836	4822 050 11002	
3118	4822 116 52175		3472	4822 050 23908		3837	4822 116 52175	
3119	4822 116 52199			4822 050 25608		3838	4822 051 10102	
3120	4822 051 10102			4822 050 26808		3839	4822 116 52175	
3121	4822 116 52201		3473	4822 050 22202		3840	4822 051 20472 4822 051 20822	
3122 3155	4822 116 52176			4822 050 11002		3841 3842	4822 051 20822 4822 051 10102	
3200	4822 116 52195 4822 116 83881		3475 3476	4822 050 22202 4822 052 10158		3842	4822 051 10102	
3200 3201	4822 116 63661		3476	4822 116 83872		3901	4822 051 20471	
3202	4822 116 52175			4822 116 83872		3902	4822 051 10102	
3202	4822 116 52175			4822 050 11002		3903	4822 051 20332	
3204	4822 050 21003			4822 053 21335		3903	4822 051 20822	
3206	4822 117 10837		3501	4822 053 21335		3904	4822 117 10833	
3207	4822 050 11002		3504		PTC 9Ω 200V 100R	3905	4822 051 20332	
3208	4822 117 11503		3506	4822 116 83872		3906	4822 117 10833	
3209	4822 117 12521	68Ω 1% 0.1W	3507	4822 252 11215	DSP301N-A21F	3907	4822 117 11507	6k8 1% 0.1W
3212	4822 051 20471	470Ω 5% 0.1W	3519	4822 116 83876	270Ω 5% 0.5W	3921	4822 051 20334	330k 5% 0.1W
3213	4822 051 20561	560Ω 5% 0.1W	3520	4822 051 20122	1k2 5% 0.1W	3922	4822 051 20334	330k 5% 0.1W
3214	4822 116 52175		3521	4822 050 24708		3981	4822 116 83876	
3217	4822 051 20334		3521	4822 116 52186		3982	4822 116 83876	
3218	4822 117 11149			4822 051 20334		4xxx	4822 051 10008	
3219	4822 117 11449	2k2 5% 0 1W	3523	4822 052 10101		4xxx	4922 NET 20000	0O 5% 0 25W
							4822 051 20008	012 0 70 0.2011
3223	4822 117 11373	100Ω 1%	3523	4822 052 10479	47Ω 5% 0.33W		4022 031 20000	022 0 70 0.2011
3226	4822 051 20561	100Ω 1% 560Ω 5% 0.1W	3523 3524	4822 052 10479 4822 117 11148	47Ω 5% 0.33W 56k 1% 0.1W		4022 031 20000	0.207
3226 3227	4822 051 20561 4822 117 10837	100Ω 1% 560Ω 5% 0.1W 100k 1% 0.1W	3523 3524 3525	4822 052 10479 4822 117 11148 4822 051 10102	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W		4622 031 20000	012 070 0.2011
3226 3227 3228	4822 051 20561 4822 117 10837 4822 116 52234	100Ω 1% 560Ω 5% 0.1W 100k 1% 0.1W 100k 5% 0.5W	3523 3524 3525 3526	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5%		4822 157 51216	
3226 3227 3228 3229	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454	$100\Omega$ 1% $560\Omega$ 5% 0.1W $100k$ 1% 0.1W $100k$ 5% 0.5W $820\Omega$ 1% 0.1W	3523 3524 3525 3526 3526	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570	$47\Omega$ 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0 $\Omega$ 18 5% 1W 0 $\Omega$ 15 5%			5.6μH
3226 3227 3228 3229 3230	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102	$\begin{array}{l} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \end{array}$	3523 3524 3525 3526 3526 3527	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W	5001 5002 5003	4822 157 51216 2422 535 94639 4822 157 11866	5.6µН 10U 20% 1.8µН 10%
3226 3227 3228 3229 3230 3230	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504	$\begin{array}{l} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W	5001 5002 5003 5201	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868	5.6µH 10U 20% 1.8µH 10% 2.7µH 5%
3226 3227 3228 3229 3230 3230 3231	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20008	$\begin{array}{l} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W	5001 5002 5003 5201 5202	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462	5.6µH 10U 20% 1.8µH 10% 2.7µH 5% 10µH 10%
3226 3227 3228 3229 3230 3230	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20008	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 117 10834 4822 051 20472	$47\Omega$ 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0 $\Omega$ 18 5% 1W 0 $\Omega$ 15 5% 2k2 5% 0.33W 10k 1% 0.1W 475 % 0.1W 4k7 5% 0.1W	5001 5002 5003 5201 5202 5241	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10%
3226 3227 3228 3229 3230 3230 3231 3231	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20008 4822 051 20561	$\begin{array}{l} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper	5001 5002 5003 5201 5202 5241 5242	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51468 4822 157 51462 4822 157 51462 4822 157 11706	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5%
3226 3227 3228 3229 3230 3230 3231 3231 3232	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20008 4822 051 20561 4822 117 11449	$\begin{array}{l} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20472	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W	5001 5002 5003 5201 5202 5241 5242 5406	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235	4822 051 20561 4822 117 10837 4822 116 52234 4822 1051 10102 4822 051 10102 4822 051 20008 4822 051 20561 4822 117 11459 4822 117 11459 4822 117 10361 4822 116 52175	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 680\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 2008 4822 051 20471 4822 117 11139 4822 050 28203	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W	5001 5002 5003 5201 5202 5241 5242 5406 5408	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11539 4822 157 71401	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11449 4822 117 11454 4822 117 10361 4822 117 10361 4822 116 52175 4822 051 20154	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 680\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20008 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 26802	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 6k8 1% 0.6W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11539 4822 157 71401	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3234 3235 3236 3236	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20561 4822 051 20561 4822 117 11449 4822 117 10361 4822 116 52175 4822 051 20154 4822 117 10837	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3541 3542 3543 3544 3545	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 26802 4822 117 11149	$47\Omega \ 5\% \ 0.33W$ $56k \ 1\% \ 0.1W$ $1k \ 2\% \ 0.25W$ $MTL \ 1W \ 0\Omega18 \ 5\%$ $1W \ 0\Omega15 \ 5\%$ $2k2 \ 5\% \ 0.33W$ $10k \ 1\% \ 0.1W$ $47k \ 1\% \ 0.1W$ $47k \ 1\% \ 0.1W$ $1W \ 1W \ 1\% \ 0.1W$ $1W \ 1W \ 1\% \ 0.1W$ $1k5 \ 1\% \ 0.1W$ $1k5 \ 1\% \ 0.1W$ $2k1 \ 1\% \ 0.6W$ $6k8 \ 1\% \ 0.6W$ $82k \ 1\% \ 0.1W$	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444	4822 157 51216 2422 535 94639 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3236 3237	4822 051 20561 4822 117 10837 4822 117 10837 4822 116 52234 4822 051 10102 4822 117 11504 4822 051 20068 4822 051 20561 4822 117 11454 4822 117 10361 4822 116 52175 4822 051 20154 4822 117 10837 4822 051 20122	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 125\% \ 0.1W \\ 126\% \ 0.1W \\ 126\% \ 0.1W \\ 127\% \ 0.1W \\ 128\% \ 0.1W \\$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3547	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 26802 4822 117 11149 4822 117 11149	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 75% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 6k8 1% 0.6W 6k8 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444 5445	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3236 3237 3237	4822 051 20561 4822 117 10837 4822 116 12234 4822 117 11454 4822 051 10102 4822 051 20008 4822 051 20061 4822 117 11454 4822 117 11454 4822 117 10361 4822 116 52175 4822 051 20154 4822 117 10837 4822 051 20154	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 800\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 130\Omega \ 1\% \ 1.25W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3547 3548	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 200472 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 28203 4822 177 11149 4822 117 11149 4822 117 11392	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 75% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 6k8 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5414 5445 5501	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11539 4822 157 71401 4822 157 71401 2422 531 02446 4822 549 44725	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3236 3237 3237 3237	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 051 20008 4822 051 20061 4822 117 11449 4822 117 11454 4822 117 10361 4822 116 52175 4822 051 20154 4822 117 10837 4822 117 10377 4822 051 201561	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100K \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ \end{array}$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3545 3547 3548 3549	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 117 10834 4822 051 20472 4822 051 20008 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 28203 4822 117 11149 4822 117 11149 4822 117 11342 4822 117 11342 4822 051 20822 4822 116 83872	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 4k7 5% 0.1W 4k7 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W 220Ω 5% 0.5W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444 5445	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3236 3236 3237 3237 3237 3238	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11449 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 10837 4822 051 20154 4822 117 10837 4822 051 20561 4822 117 13577 4822 051 20561 4822 117 13577 4822 051 20561	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1mper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.1W \\ 100\Omega \ 5\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 1005 \ 5\% \ 0.1W \\ 250\Omega \ 1\% \ 0.1W \\ 250\Omega \ 1\% \ 0.1W \\ 270\Omega \ $	3523 3524 3525 3526 3526 3527 3528 3530 3531 3541 3542 3544 3545 3547 3548 3549 3550	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20471 4822 1050 28203 4822 117 11139 4822 050 28203 4822 117 11149 4822 117 11342 4822 051 20822 4822 116 83872 4822 053 12103	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 7% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W 20Ω 5% 0.1W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444 5445 5501 5505	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669 2422 549 44725 4822 526 10704	5.6μH 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH S359B4-09
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3237 3237 3238 3238 3238	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11504 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11454 4822 117 11454 4822 117 10361 4822 117 2051 4822 117 1054 4822 117 1054 4822 117 1057 4822 051 20122 4822 117 10561 4822 117 115064 4822 117 11504	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 125W \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \$	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3547 3548 3549 3550 3550	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20471 4822 117 11139 4822 050 26802 4822 117 11149 4822 117 11149 4822 117 11342 4822 051 20822 4822 116 83872 4822 053 12103 4822 053 10331	$47\Omega$ 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0 $\Omega$ 18 5% 1W 0 $\Omega$ 15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 1% 0.1W 1wper 470 $\Omega$ 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 6k8 1% 0.6W 82k 1% 0.1W 0 $\Omega$ 33 5% 2W 8k2 5% 0.1W 10k 5% 0.1W 10k 5% 0.1W 10 $\Omega$ 33 5% 2W 8k2 5% 0.1W 220 $\Omega$ 5% 0.5W 10k 5% 3W 330 $\Omega$ 5% 1W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444 5444 5445 5501 5505 5505	4822 157 51216 2422 535 94639 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11539 4822 157 71401 2422 531 02446 4822 140 10669 2422 549 44725 4822 531 02456	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH S359B4-09 SS28010-06
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3237 3237 3238 3238 3239 3239	4822 051 20561 4822 117 10837 4822 117 10837 4822 116 10102 4822 117 11504 4822 051 20068 4822 051 20068 4822 117 11454 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 1037 4822 051 20154 4822 117 10837 4822 117 10837 4822 117 1057 4822 117 1504 4822 117 11504 4822 117 11504 4822 117 11504	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ jumper \\ 560\Omega \ 5\% \ 0.1W \\ 2k2 \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 130\Omega \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 330\Omega \ 1\% \ 1.25W \\ 330\Omega \ 1\% \ 1.25W \\ 300 \ 1\% \ 1.25W \\ 3100 \ 1.25W \ 1.25W \\ 3100 \ 1\% \ 1.25W \\ 31000 \ 1\% \ 1.25W \\ 31000 \ 1\% \ 1.25W \\ 31000 \ 1\% \ 1.25W \ 1.25W \\ 31000 \ 1\% \ 1.25W \$	3523 3524 3525 3526 3526 3527 3528 3529 3531 3541 3541 3542 3543 3544 3545 3547 3548 3549 3550 3558 3550	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20471 4822 051 20471 4822 117 11139 4822 050 28203 4822 117 11149 4822 117 11149 4822 117 11149 4822 117 11342 4822 051 20822 4822 116 3872 4822 053 12103 4822 053 10331 4822 053 10331	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 1% 0.1W 1k5 1% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 6k8 1% 0.6W 6k8 1% 0.6W 82k 1% 0.1W 20Ω3 5% 2W 8k2 5% 0.1W 20Ω5% 0.5W 10k 5% 3W 330Ω 5% 1W 47Ω 5% 0.5W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 54445 5501 5505 5520 5520 5521 5560	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669 2422 549 44725 4822 556 10704 2422 531 02456 2422 531 02457 4822 526 10704	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH S359B4-09 SS28010-06 100mH 100mH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3237 3237 3238 3238 3239 3239	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 051 20008 4822 051 20061 4822 117 11454 4822 117 11454 4822 117 10361 4822 116 52175 4822 051 20154 4822 117 10837 4822 051 20154 4822 117 10837 4822 051 20561 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 11504	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ imper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 800\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 102 \ 5\% \ 0.1W \\ 1030\Omega \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 230\Omega \ 1\% \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 1$	3523 3524 3525 3526 3526 3526 3527 3528 3530 3531 3541 3542 3543 3544 3545 3544 3545 3549 3550 3558 3550 3550 3561	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 050 28203 4822 050 28203 4822 117 11149 4822 117 11342 4822 117 11342 4822 051 20822 4822 116 83872 4822 116 52195 4822 116 52195 4822 116 83872	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 4k7 5% 0.1W 4k7 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W 10x 5% 0.1W 10x 5% 0.1W 10x 5% 0.1W 10x 5% 0.5W 10x 5% 0.5W 10x 5% 3W 330Ω 5% 1W 47Ω 5% 0.5W 220Ω 5% 0.5W 220Ω 5% 0.5W 220Ω 5% 0.5W	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 5444 5445 5501 5505 5520 5520 5520 5560 5561	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669 2422 549 44725 4822 526 10704 2422 531 02456 2422 531 02457 4822 526 10704 4822 526 10704 4822 526 10704 4822 526 10704 4822 526 10704	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH S359B4-09 SS28010-06 100mH 100mH 100mH 27μH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3236 3236 3237 3238 3238 3239 3239 3240 3241	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11454 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11454 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 10837 4822 051 20154 4822 117 10837 4822 051 20561 4822 117 13577 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 13577 4822 117 13577 4822 117 10837 4822 117 10837	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1wper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.1W \\ 100K \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 125W \ 0.1W \\ 130\Omega \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 330\Omega \ 1\% \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 220D \ 1\% \ 0.1W \\ 230D \ 1\% \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 230D \ 1\% \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 25W \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 28 \ 5\% \ 0.1W \\ 28 \ 5\% \ 0.1W \\ 28 \ 5\% \ 0.1W \\ 29k \ 5\% \ 0.1W \\ 20k \ 0.1W \\$	3523 3524 3525 3526 3526 3526 3527 3528 3530 3531 3541 3542 3544 3545 3544 3545 3547 3548 3549 3550 3558 3560 3558 3560 3561 3562	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 1050 28203 4822 117 11139 4822 050 28203 4822 117 11149 4822 117 11142 4822 117 11342 4822 117 11342 4822 051 20822 4822 116 83872 4822 053 10331 4822 116 52195 4822 116 52195 4822 116 83872 4822 116 83872 4822 116 83872 4822 116 83872 4822 116 83872	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W 220Ω 5% 0.5W 10k 5% 3W 330Ω 5% 1W 47Ω 5% 0.5W 220Ω 5% 0.5W 10k 0.5W 220Ω 5% 0.5W 10k 1% 0.5W 220Ω 5% 0.5W 10k 1% 0.5W	5001 5002 5201 5202 5241 5242 5406 5408 5410 5444 5445 5550 5520 5520 5520 5521 5561 5562	4822 157 51216 2422 535 94639 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 71401 2422 531 02446 4822 140 10669 2422 549 44725 4822 526 10704 2422 531 02456 2422 531 02457 4822 526 10704 4822 157 52392 4822 157 52392 4822 157 52392	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH S359B4-09 SS28010-06 100mH 100mH 27μH 100mH 100mH
3226 3227 3228 3230 3230 3231 3231 3232 3233 3234 3235 3236 3237 3237 3237 3238 3238 3239 3241 3241	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11504 4822 051 10102 4822 051 20561 4822 051 20561 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 10837 4822 051 20154 4822 117 13577 4822 051 20561 4822 117 13577 4822 117 13577 4822 117 13577 4822 117 13577 4822 117 13577 4822 117 13577 4822 117 10837 4822 117 10837 4822 117 10837 4822 117 10837 4822 051 20223 4822 117 11833	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1mper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 130\Omega \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 230\Omega \ 1\% \ 1.25W \\ 100k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 12k \ 1\% \ 0.1W \\ 12k \ 100k $	3523 3524 3525 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3547 3548 3550 3558 3560 3558 3560 3561 3562 3562	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10833 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 117 11139 4822 050 28203 4822 050 26802 4822 117 11342 4822 051 20822 4822 116 83872 4822 053 10331 4822 053 10331 4822 116 52195 4822 116 58372 4822 116 83872 4822 116 83872 4822 116 83872 4822 116 83872 4822 116 83872 4822 117 10833 4822 116 52195	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 0Ω33 5% 2W 8k2 5% 0.1W 10Ω 5% 0.5W 10Ω 5% 0.5W 10Ω 5% 0.5W 10X 5% 0.5W 10X	5001 5002 5003 5201 5202 5241 5242 5406 5408 5410 55445 5501 5505 5520 5520 5520 5521 5560 5561 5562 5562	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 4822 157 71401 2422 531 02456 4822 540 10704 2422 531 02456 2422 531 02457 4822 157 71401 4822 157 02456 4822 157 02457 4822 526 10704 4822 526 10704 4822 526 10704 4822 157 52392 4822 157 11411 4822 526 10704	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH 5359B4-09 SS28010-06 100mH 100mH 27μH 100mH 100mH
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3226 3227 3228 3230 3230 3231 3231 3232 3233 3234 3236 3236 3237 3238 3239 3240 3241 3242 3244 3245 3246 3247 3248 3249 3251 3254 3251 3256 3257 3258 3259 3261 3406 3406 3406 3406 3406 3406 3406 3406	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11504 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11454 4822 117 11454 4822 117 11454 4822 117 10861 4822 117 10861 4822 117 10861 4822 117 10861 4822 117 1087 4822 051 20154 4822 117 10561 4822 117 13577 4822 051 20523 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 10837 4822 051 20223 4822 117 10833 3198 021 52240 4822 051 20393 4822 116 5231 4822 051 20106 4822 051 20108 4822 051 1009 4822 052 10083 4822 051 1009	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1wper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.5W \\ 150k \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100\Omega \ 5\% \ 0.1W \\ 125W \ 50.1W \\ 130\Omega \ 1\% \ 1.25W \\ 560\Omega \ 5\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 220L \ 5\% \ 0.1W \\ 12k \ 1\% \ 0.1W \\ 12k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 12k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 10k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 10k \ 5\% \ 0.1W \\ 10k \ 5\% \ 0.1W \\ 30k \ 5\% \ 0.1W \\ 30k \ 5\% \ 0.1W \\ 30k \ 5\% \ 0.1W \\ 33k \ 5\% \ 0.1W \\ 33k \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.1W \\ 33k \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.3W \\ 62k \ 5\% \ 0.3W \\ 62k \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.3W \\ 62k \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.33W \\ 62k \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.33W \\ 62k \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.33W \\ 62k \ 5\% \ 0.33W \\ 62k \ 5\% \ 0.5W \\ 33k \ 5\% \ 0.1W \\ 10\Omega \ 5\% \ 0.33W \\ 62k \ 5\% \$	3523 3524 3525 3526 3526 3526 3527 3528 3530 3531 3541 3542 3543 3544 3545 3549 3550 3551 3562 3563 3561 3562 3563 3561 3562 3563 3603 3604 3605 3606 3607 3606 3607 3608 3607 3611 3612 3611 3612 3618 3618 3622 3631 3611 3615 3618 3622 3631 3631 3631 3631 3631 3631 3631	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 117 11134 4822 050 28203 4822 050 28203 4822 050 28203 4822 117 11149 4822 051 20822 4822 116 83872 4822 116 52195 4822 116 52195 4822 116 52195 4822 116 52175 4822 116 52256 4822 116 52256 4822 116 52256 4822 116 52256 4822 116 52256 4822 116 52333 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52233 4822 116 52333 4822 116 52233 4822 116 52233	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 4k7 5% 0.1W 4k7 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 220Ω 5% 0.5W 10k 5% 3W 330Ω 5% 11W 47Ω 5% 0.5W 10k 5% 3W 330Ω 5% 11W 47Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 220Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 240Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.5W 10ΩΩ 1% 8k2 5% 0.5W 10ΩΩ 5% 0.5W	5001 5002 5003 5201 5202 5241 5406 5408 5414 5445 5501 5505 5520 5520 5521 5560 5520 5562 5562 5562 5562 5562 5562	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669 2422 531 02456 4822 531 02456 2422 531 02457 4822 526 10704 4822 526 10704 4822 526 10704 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 1139 4822 157 1139 4822 157 11139 4822 157 11139 4822 157 11139 4822 157 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416	5.6μH 10U 20% 1.8μH 10% 2.7μH 5% 10μH 10% 10μH 10% 10μH 5% LIN CORRECTOR COIL 27μH 27μH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH 35359B4-09 SS28010-06 100mH 100mH 100mH 100mH 5.6μH 5% 5.6μH 5% 6.8μH
3226 3227 3228 3229 3230 3231 3231 3232 3233 3234 3235 3236 3237 3237 3238 3239 3240 3241 3242 3244 3245 3246 3257 3256 3257 3258 3258 3258 3258 3258 3258 3258 3258	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11504 4822 051 20008 4822 051 20561 4822 117 11454 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 10361 4822 117 1037 4822 051 20154 4822 117 10837 4822 051 20561 4822 117 11504 4822 117 11504 4822 117 11504 4822 117 11837 4822 051 2023 4822 117 10837 4822 051 2023 4822 117 10837 4822 051 2023 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 1083 4822 117 11824 4822 051 20106 4822 051 2034 4822 051 2068 4822 117 11824 4822 050 21003 4822 116 52303 4822 116 52303 4822 116 52303	$\begin{array}{c} 100\Omega \ 1\% \\ 560\Omega \ 5\% \ 0.1W \\ 100k \ 1\% \ 0.1W \\ 100k \ 5\% \ 0.5W \\ 820\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1k \ 2\% \ 0.25W \\ 270\Omega \ 1\% \ 0.1W \\ 1mper \\ 560\Omega \ 5\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 820\Omega \ 1\% \ 0.1W \\ 100K \ 5\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 12K \ 5\% \ 0.1W \\ 12W \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 270\Omega \ 1\% \ 0.1W \\ 22K \ 5\% \ 0.1W \\ 12k \ 1\% \ 0.1W \\ 22k \ 5\% \ 0.1W \\ 12k \ 1\% \ 0.1W \\ 220k \ 5\% \\ 27k \ 5\% \ 0.1W \\ 100K \ 1\% \ 0.1W \\ 220k \ 5\% \\ 27k \ 5\% \ 0.1W \\ 100M \ 5\% \ 0.1W \\ 100M \ 5\% \ 0.1W \\ 12W \ 1\% \ 0.1W \\ 12W \ 1\% \ 0.1W \\ 220k \ 5\% \\ 27k \ 5\% \ 0.1W \\ 100M \ 5\% \ 0.1W \\ 10M \ 5\% \ 0.1W \\ 10M \ 5\% \ 0.1W \\ 330K \ 5\% \ 0.1W \\ 330K \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.1W \\ 330K \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.1W \\ 470k \ 5\% \ 0.1W \\ 482 \ 5\% \ 0.3W \\ 38k \ 5\% \ 0.3W \\ 38k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 39k \ 1\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 30k \ 5\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 30k \ 5\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 30k \ 5\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 30k \ 5\% \ 0.6W \\ 30k \ 5\% \ 0.3W \\ 30k \ 5\% $	3523 3524 3525 3526 3526 3526 3527 3528 3529 3530 3531 3541 3542 3543 3544 3545 3547 3548 3549 3550 3561 3562 3561 3562 3563 3606 3606 3606 3607 3606 3609 3610 3611 3612 3613 3614 3615 3618 3623 3623 3624	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 051 206802 4822 117 11139 4822 050 26802 4822 117 11149 4822 051 20822 4822 116 83872 4822 116 52195 4822 116 52195 4822 116 52195 4822 116 52195 4822 116 52195 4822 116 52195 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52173 4822 116 52303 4822 116 52303 4822 116 52303 4822 116 52303 4822 116 52303 4822 116 52303 4822 116 52303 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52030 4822 116 52083 4822 116 52083 4822 050 21003 4822 051 20472 4822 051 20472	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.1W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 220Ω 5% 0.5W 10k 5% 3W 330Ω 5% 11W 47Ω 5% 0.5W 10k 5% 3W 330Ω 5% 11W 47Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 2V0Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 2V0Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 100Ω 5% 0.5W 100Ω 1% 8k2 5% 0.5W 100Ω 1% 8k2 5% 0.5W 100Ω 1% 8k3 0.5W 100Ω 1% 8k4 75% 0.1W 100Ω 5% 0.5W 100Ω 1% 8k7 5% 0.1W 100Ω 1% 8k7 5% 0.5W 100Ω 1% 8k7 5% 0.5W 100Ω 1% 8k7 5% 0.5W 100Ω 5% 0.5W 100Ω 1% 8k7 5% 0.5W 100Ω 5% 0.5W	5001 5002 5003 5201 5202 5241 5406 5408 5410 5545 5501 5505 5520 5521 5560 5521 5562 5562 5562 5562 5562 5562 5562 5562 5603 5604 5831 5832 5833 5835 5835 6001 6002 6004 6201 6202 6206 6241 6402 6403	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 11868 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11539 4822 157 71401 4822 157 71401 4822 150 102466 2422 531 02456 2422 531 02457 4822 526 10704 2422 531 02457 4822 526 10704 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 1189 4822 157 1139 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 10871 9340 559 50112	5.6µH 10U 20% 1.8µH 10% 2.7µH 5% 10µH 10% 10µH 5% LIN CORRECTOR COIL 27µH 27µH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH 35359B4-09 SS28010-06 100mH 100mH 100mH 100mH 5.6µH 5% 5.6µH 5% 6.8µH 5%
3226 3227 3228 3230 3230 3231 3231 3232 3233 3234 3236 3236 3237 3238 3239 3240 3241 3242 3244 3245 3245 3245 3251 3251 3251 3251 3251 3251 3251 325	4822 051 20561 4822 117 10837 4822 116 52234 4822 117 11504 4822 051 10102 4822 117 11504 4822 051 20561 4822 117 11454 4822 117 11454 4822 117 10361 4822 117 10361 4822 117 10361 4822 117 10837 4822 051 20154 4822 117 10837 4822 051 2051 4822 117 13577 4822 051 20523 4822 117 13577 4822 051 20223 4822 117 13637 4822 117 10837 4822 117 10837 4822 117 10833 3198 021 52240 4822 117 10833 3198 021 52240 4822 051 20073 4822 116 52231 4822 116 52231 4822 051 20105 4822 051 20105 4822 051 20106 4822 051 20334 4822 051 20334 4822 051 20333 4822 052 10003 4822 116 52303 4822 116 52303 4822 050 21003 4822 051 01009 4822 050 23903	$100\Omega$ 1% $560\Omega$ 5% 0.1W $100k$ 1% 0.1W $100k$ 5% 0.5W $820\Omega$ 1% 0.1W $1k$ 2% 0.25W $270\Omega$ 1% 0.1W jumper $560\Omega$ 5% 0.1W $820\Omega$ 1% 0.1W $820\Omega$ 1% 0.1W $820\Omega$ 1% 0.1W $820\Omega$ 1% 0.1W $800\Omega$ 5% 0.5W $800\Omega$ 1% 0.1W $800\Omega$ 5% 0.5W $800\Omega$ 5% 0.1W $800\Omega$ 5% 0.5W $800\Omega$ 5% 0.1W $800\Omega$ 5% 0.1W $800\Omega$ 5% 0.5W $800\Omega$ 5% 0.1W $800\Omega$ 5% 0.3W $800\Omega$ 6% 0.0W $800\Omega$ 5% 0.3W $800\Omega$ 6% 0.0W $800\Omega$ 5% 0.3W $800\Omega$ 6% 0.0W $800\Omega$ 6% 0.0W $800\Omega$ 6% 0.0W	3523 3524 3525 3526 3526 3526 3527 3528 3530 3531 3541 3543 3544 3545 3547 3548 3549 3550 3558 3561 3562 3563 3561 3562 3563 3564 3563 3604 3606 3607 3608 3606 3607 3611 3612 3611 3612 3611 3612 3611 3612 3611 3612 3611 3612 3618 3622 3623 3624	4822 052 10479 4822 117 11148 4822 051 10102 2120 106 90636 3198 012 11570 4822 052 10222 4822 117 10834 4822 051 20472 4822 051 20472 4822 051 20471 4822 050 28203 4822 050 28203 4822 050 28203 4822 117 11149 4822 051 20822 4822 116 83872 4822 116 5215 4822 116 52175 4822 116 52175 4822 116 52256 4822 116 52256 4822 116 52256 4822 116 52303 4822 117 11373 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4821 116 52175	47Ω 5% 0.33W 56k 1% 0.1W 1k 2% 0.25W MTL 1W 0Ω18 5% 1W 0Ω15 5% 2k2 5% 0.33W 10k 1% 0.1W 47k 1% 0.1W 47k 1% 0.1W 4k7 5% 0.1W jumper 470Ω 5% 0.1W 1k5 1% 0.6W 6k8 1% 0.6W 82k 1% 0.6W 82k 1% 0.1W 20Ω 5% 0.5W 10k 5% 3W 330Ω 5% 1W 47Ω 5% 0.5W 20Ω 5% 0.5W 20Ω 5% 0.1W 8k2 5% 0.1W 20Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 20Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 20Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 20Ω 5% 0.5W 10k 1% 0.1W 8k2 5% 0.1W 100Ω 5% 0.5W 100Ω 1% 8k2 5% 0.5W 100Ω 5% 0.5W	5001 5002 5003 5201 5202 5241 5406 5408 5414 5445 5501 5505 5520 5520 5521 5560 5520 5562 5562 5562 5562 5562 5562	4822 157 51216 2422 535 94639 4822 157 11866 4822 157 51462 4822 157 51462 4822 157 51462 4822 157 11706 4822 157 11706 4822 157 71401 4822 157 71401 2422 531 02446 4822 140 10669 2422 531 02456 4822 531 02456 2422 531 02457 4822 526 10704 4822 526 10704 4822 526 10704 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 11867 4822 157 1139 4822 157 1139 4822 157 11139 4822 157 11139 4822 157 11139 4822 157 11397 4822 130 11397 4822 130 11397 4822 130 11397 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416 4822 130 11416	5.6µH 10U 20% 1.8µH 10% 2.7µH 5% 10µH 10% 10µH 5% LIN CORRECTOR COIL 27µH 27µH DRIVER SC10009-03 LOT 1142.5093D MAINS 30mH DMF2430H22 100mH 35359B4-09 SS28010-06 100mH 100mH 100mH 100mH 5.6µH 5% 5.6µH 5% 6.8µH 5%

Spare Parts List L01H.2E 10. EN 63

```
6405
       4822 130 42488 BYD33D
6406
      5322 130 34331 BAV70
6407
       4822 130 11397
                     BAS316
6408
      4822 130 11397 BAS316
6409
      4822 130 42488 BYD33D
6410
      4822 130 42488 BYD33D
6411
       4822 130 42488 BYD33D
6411
      5322 130 81917 SB140
6412
       4822 130 42488
                     BYD33D
6412
      5322 130 81917
                     SB140
6413
      4822 130 30621
                     1N4148
6414
      4822 130 34167
                     BZX79-B6V2
6415
      4822 130 11397
                     BAS316
6416
      4822 130 11397
                     BAS316
6417
       4822 130 11551 UDZS10B
6419
      4822 130 34173 BZX79-B5V6
6420
      4822 130 30862 BZX79-B9V1
6423
      4822 130 42488 BYD33D
6471
      4822 130 42488 BYD33D
6500
      4822 130 31083 BYW55
6501
       4822 130 31083 BYW55
6502
      4822 130 31083 BYW55
6503
      4822 130 31083 BYW55
6520
      4822 130 42488 BYD33D
6523
      4822 130 30621 1N4148
6540
      4822 130 34167 BZX79-B6V2
6541
       4822 130 61219 BZX79-B10
       9322 127 32682 BYW76-RAS15/10
6560
6561
       9322 127 32682 BYW76-RAS15/10
6563
       4822 130 11397 BAS316
6564
      9322 161 76682 SB340L-7024
6565
      5322 130 34331 BAV70
6567
                     UDZ4.7B
       4822 130 11148
6681
       4822 130 31983 BAT85
                     LED LTL-102SRHAP
6691
       9322 172 20682
      9322 174 42667
                     IR RECEIVER
6692
                     TOSP4136UH1
6831
      4822 130 30621 1N4148
      4822 051 20008 JUMP
6901
-K
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4822 130 63732 MMUN2212
7001
7101
      4822 130 60511 BC847B
7200
       9352 706 22557
                     TDA9552H/N1/3/0607
7201
       4822 130 60511 BC847B
7204
       4822 130 60373 BC856B
7206
      5322 130 42755 BC847C
7209
      5322 130 42718 BES20
7210
      5322 130 42718 BFS20
7241
       3198 010 44010 PDTA114ET
7401
       9340 547 00215 PDTC143ZT
7402
      9340 563 21127 BUT11APX-1200
7403
      4822 130 40981 BC337-25
7404
7405
      4822 130 41087 BC638
      4822 130 60373 BC856B
7406
       4822 130 60373 BC856B
7407
       4822 130 40823 BD139
7408
       4822 130 40823 BD139
7409
       4822 130 60373 BC856B
7435
       4822 130 40823 BD139
7471
      4822 209 13176 TDA9302H
      8238 274 02070 TCET1103G
7515
7520
      9352 673 56112 IC TEA1507P/N1
7521
       9322 160 62687 STP6NC80ZFP
7521
      9322 164 04687
                     STP4NC80ZFP
7522
       4822 130 60511 BC847B
7540
      4822 130 40959 BC547B
7560
      4822 209 15576 LE33CZ
7560
      4822 209 16978 LF33CV
7561
      9340 547 00215 PDTC143ZT
       4822 130 60373 BC856B
7562
7564
       4822 130 60373 BC856B
7602
      9322 147 25682 M24C16-WBN6
7801
      5322 209 11102 HEF4052BT
      4822 130 60511 BC847B
7803
7804
       4822 130 60511
                     BC847B
7831
       9322 160 79682
                     MSP3415G-PO-B8 FM
7832
       4822 130 60511
                     BC847B
7833
       4822 130 60511
                     BC847B
7834
      4822 130 60511 BC847B
7835
      4822 130 60511 BC847B
```

# **CRT Panel [B]**

## Various

0156 3119 107 17411 WIRETREE MAIN-SPK STEREO 0244 2422 025 04851 CON 3P

9322 158 65667 AN7522N

0245 2422 025 04854 CON 6P Female 0254 2422 500 80076 SOC CRT 9P F N-NECK B 0254 2422 500 80077 SOC CRT V 9P F M-NECK B

#### ⊣⊢

2313 4822 122 33216 270pF 5% 50V 4822 122 33575 220pF 5% 63V 2313 4822 122 33172 390pF 5% 50V 2323 2331 4822 122 33172 390pF 5% 50V 2341 2020 558 90571 2N2 10% 1KV 4822 126 14588 2.2nF 10% 1KV 2341 2342 4822 121 70386 47nF 10% 250V 2343 4822 121 70386 47nF 10% 250V

# $\Box$

3311 4822 051 20392 3k9 5% 0.1W 3312 4822 117 13577 3300 1% 1 25W 4822 051 20109 100 5% 0 1W 3313 3314 4822 053 12183 18k 5% 3W 3316 4822 052 10689 68Ω 5% 0.33W 3317 3198 013 01520 1k5 2% 1/2W 3321 4822 051 20392 3k9 5% 0.1W 3322 4822 117 13577 330Ω 1% 1.25W 3323 4822 051 20109  $10\Omega \, 5\% \, 0.1W$ 3324 4822 053 12183 18k 5% 3W 3326 4822 052 10689 68Ω 5% 0.33W 3327 3198 013 01520 1k5 2% 1/2W 4822 051 20392 3k9 5% 0.1W 3331 3332 4822 117 13577 330Ω 1% 1.25W 3333 4822 051 20109 10Ω 5% 0.1W 18k 5% 3W 3334 4822 053 12183 3336 4822 052 10689 68Ω 5% 0.33W 3337 3198 013 01520 1k5 2% 1/2W 3341 3198 013 01520 1k5 2% 1/2W 3347 4822 052 10221 220Ω 5% 0.33W 3348 3198 013 01520 1k5 2% 1/2W 3349 4822 052 10158 1Ω5 5% 0.33W 4822 052 10188 3349  $1\Omega 8\ 5\%\ 0.33W$ 3350  $4822\ 052\ 10158\ \ 1Ω5\ 5\%\ 0.33W$ 

4822 052 10188 1Ω8 5% 0.33W

3350

5341  $4822\ 157\ 11672\ \ 12\mu H\ 5\%$ 5341 4822 157 50965 15μH 5342 4822 526 10704 100mH

# **→**⊢

6311 4822 130 30842 BAV21 6321 4822 130 30842 BAV21 6331 4822 130 30842 BAV21 6341 4822 130 30842 BAV21 6342 9337 587 20673 BA282 6343 4822 130 10837 UDZS8.2B 4822 051 20008 JUMPER 6344

# **E**

4822 130 41782 BF422 7311 7312 4822 130 41782 BF422 7313 4822 130 41646 BF423 7321 4822 130 41782 BF422 BF422 7322 4822 130 41782 4822 130 41646 BF423 7323 7331 4822 130 41782 BF422 4822 130 41782 BF422 7333 4822 130 41646 BF423

# **EPS 4 [F]**

## Various

1073 3139 137 22222 Ext. Power Supply Module

# Clock Module [G]

## Various

1076 3119 108 52471 Small digit disp 14" sets 3119 108 52191 Small digit disp

# **UIR/LS/Vbat Module [H]**

#### Various

```
2238 586 59812 100N
       2238 586 59812
C3
                      100N
       4822 126 14238
                      50V 2N2
C6
C7
       2238 586 59812
                      100N
C8
       2238 586 59812
                     100N
D3
       4822 130 10852
                      BZX284-C6V8
Π4
       4822 130 10852
                      BZX284-C6V8
D5
       4822 130 10852 BZX284-C6V8
D9
       4822 130 10852 BZX284-C6V8
F1
       4822 071 54001
                      19372(400MA)
Q1
       4822 130 60511
                      BC847B
Q2
       4822 130 60373 BC856B
Q4
       9310 125 00235 N-CHANNEL MOS BSN20
\Omega5
       4822 130 60373 BC856B
Ω6
       4822 130 60511 BC847B
Q7
       4822 130 60511
                      BC847B
       4822 130 40959
Q9
                      BC547B
       4822 051 30103 10K 5% 0,062W
R2
R3
       4822 051 30103 10K 5% 0,062W
R4
       4822 051 30103 10K 5% 0,062W
R5
       4822 051 30272 2K7 5% 0 062W
       4822 051 30101
                     100R 5% 0.062W
R6
R7
       4822 051 30101
                      100R 5% 0,062W
R8
       4822 051 30102
                     1K 5% 0,062W
R9
       4822 051 30471
                      470R 5% 0,062W
                      MOD JACK
U1
       9965 000 11573
                     PHONE 1P Female 3.5 ST
112
      2422 026 05223
U3
       5322 209 14481
                      HEF4053BT
U4
       4822 209 90008
                      L78M05CP
D11
       4822 130 34441
                      BZX79-B22
D12
       4822 130 34441
                      BZX79-B22
Q10
       4822 130 41782
                      BF422
R10
       4822 051 30103
                      10K 5% 0,062W
                      10K 5% 0,062W
R11
       4822 051 30103
R12
       4822 051 30103
                      10K 5% 0,062W
                      10K 5% 0,062W
R13
       4822 051 30103
R15
       4822 051 30102
                      1K 5% 0,062W
                      10K 5% 0,062W
R17
       4822 051 30103
R18
       4822 117 13632
                      100K 1% 0.62W
R19
       4822 051 30101
                      100R 5% 0,062W
R20
       4822 051 30479
                      47R 5% 0.062W
R21
       4822 051 30102
                      1K 5% 0.062W
R22
       4822 051 30103
                      10K 5% 0,062W
R23
       4822 117 13632
                      100K 1% 0.62W
R25
       4822 051 30008
                      JUMPER
R26
       4822 051 30103
                      10K 5% 0,062W
R29
      2322 257 41332
                      3.3K 5% 5W
       4822 116 52304
R30
                      82K 5% 0 5W
R31
       4822 116 52304
                      82K 5% 0.5W
       4822 051 30103
                      10K 5% 0,062W
R32
R33
       4822 051 30008
                      JUMPER
       9965 000 11572 RXE030
RT1
0237
       4822 267 10567
      2422 025 16759 CON 5P Male
0259
                     CON 3P Male
0262
      2422 025 16936
      2422 025 06353
                     CON 5P Male
1240
      2422 025 16601
                      CON 3P Male
1246
1251
      2422 025 15851
                      CON 4P Male
```

# SP/LS Module [I]

## **Various**

```
C1
      4822 124 40207 100uF 20% 25V
C5
      2238 586 59812
                     100N
C6
       4822 126 14238
                     50V 2N2
D1
                      BZX79-B5V6
       4822 130 34173
D2
       4822 130 30621
                     1N4148
D3
       4822 130 10852
                     BZX284-C6V8
Π4
       4822 130 10852 BZX284-C6V8
D5
       4822 130 10852
                     BZX284-C6V8
D9
       4822 130 10852
                     BZX284-C6V8
Q1
       4822 130 60511
                      BC847B
Q6
       4822 130 60511
                     BC847B
Q7
       4822 130 60511
                     BC847B
O8
       4822 130 60511 BC847B
      4822 116 83876 270R 5% 0.5W
R1
R2
       4822 051 30103
                     10K 5% 0.062W
R3
       4822 051 30103
                     10K 5% 0,062W
R4
       4822 051 30103
                     10K 5% 0,062W
                     100R 5% 0,062W
R5
       4822 051 30101
R6
      4822 051 30101 100R 5% 0,062W
R7
       4822 051 30101 100R 5% 0,062W
       4822 051 30101 100R 5% 0.062W
R9
U1
      9965 000 11573 JACK 95001-2661 HOR
U2
      2422 026 05223 PHONE 1P F 3.5 ST
```

EN 64 10. L01H.2E Spare Parts List

```
D10
       4822 130 81637 PMLL4148L
      4822 130 34441 BZX79-B22
D12
      4822 130 34441 BZX79-B22
R11
      4822 051 30103 10K 5% 0,062W
      4822 051 30103 10K 5% 0.062W
R12
      4822 051 30103 10K 5% 0.062W
R13
       4822 051 30479 47R 5% 0,062W
R20
      4822 051 30102 1K 5% 0,062W
      4822 051 30103 10K 5% 0,062W
R23
      4822 117 13632 100K 1% 0.62W
      4822 117 13632
R24
                     100K 1% 0.62W
      9965 000 11572 RXE030
RT1
      2422 025 16382 CON 3P Male
1246
1251
      2422 020 00725 CON 3P Male
      4822 265 41391 B9B-EH-A
```

# **Interface Module [J]**

#### **Various**

0217 2422 025 16385 CON 4P Male 2422 025 15849 CON 6P Male 0227 0228 2422 025 16386 CON 5P Male 0237 4822 267 10565 4P 0240 2422 025 11244 CON 7P Male 4822 267 10557 B10B-EH-A 4822 267 10565 4P 0242 0251 2422 025 15848 CON 5P Male 0259 1259 4822 265 41391 B9B-EH-A 1800 3135 010 03531 32PIN CON

# ⊣⊢

2700 3198 017 41050 1µF 10V 2701 4822 126 14305 100nF 10% 16V 2702  $3198\ 017\ 41050\ \ 1\mu F\ 10V$ 2703  $4822\ 124\ 41584\ 100\mu F\ 20\%\ 10V$ 3198 017 41050 1μF 10V 2704 4822 122 33761 22pF 5% 50V 2705 2709 4822 126 14305 100nF 10% 16V 4822 126 14305 100nF 10% 16V 2710 2711 4822 122 31765 100pF 2% 63V 4822 122 31765 100pF 2% 63V 4822 126 14305 100nF 10% 16V 2712 2713 4822 126 14238 2N2 50V 2714

# <del>-</del>

3700 4822 051 30562 5k6 5% 0.063W 4822 051 30223 22k 5% 0.062W 3701 3702 4822 051 30223 22k 5% 0.062W  $4822\ 051\ 30759\ 75\Omega\ 5\%\ 0.062W$ 3703 3704 4822 051 30472 4k7 5% 0.062W 3706 4822 051 30683 68k 5% 0.062W 3707 4822 051 30103 10k 5% 0.062W 4822 117 12925 47k 1% 0.063W 3708 4822 117 12925 47k 1% 0.063W 3710  $4822\ 051\ 30101\ \ 100\Omega\ 5\%\ 0.062W$ 3715 3716 4822 051 30103 10k 5% 0.062W 3717 4822 051 30103 10k 5% 0.062W 3718 4822 051 30103 10k 5% 0.062W 3719 4822 051 30562 5k6 5% 0 063W 3720 4822 051 30103 10k 5% 0.062W 3721 4822 051 30472 4k7 5% 0.062W 4822 051 30472 4k7 5% 0.062W 4822 051 30103 10k 5% 0.062W 3729 3731 4822 117 12968 820Ω 5% 0.62W 3733 4822 117 12925 47k 1% 0.063W 3734 4822 117 12925 47k 1% 0 063W 4822 051 30759 75Ω 5% 0.062W 3736 3737 4822 051 30124 120k 5% 0.062W 4822 051 30682 6k8 5% 0.062W 3738 3739  $4822\ 053\ 11688\ 6\Omega 8\ 5\%\ 2W$ 4822 116 83872  $220\Omega$  5% 0.5W 3740 3741 4822 051 30102 1k 5% 0.062W 4822 051 30101 100Ω 5% 0.062W 3743 4822 051 30101 100Ω 5% 0.062W 3744 3745 4822 050 21003 10k 1% 0.6W 3746 4822 051 30103 10k 5% 0.062W 3748 4822 051 30103 10k 5% 0.062W 3749 4822 051 30103 10k 5% 0.062W 4xxx 4822 051 10008 0Ω 5% 0.25W 4822 051 20008  $0\Omega$  5% 0.25W 4xxx

# 5705 4822 157 11149 56uH 5%

# **→**|-

6701 4822 130 42488 BYD33D 6702 4822 130 83757 MCL4148 6703 4822 130 34233 BZX79-B5V1 6704 4822 130 11666 BZX284-C8V2 6706 4822 130 11666 BZX284-C8V2

#### ₩<u></u>

7718

7700 4822 130 60511 BC847B 7701 4822 130 60511 BC847B 7705 4822 130 60373 BC856B 7706 4822 130 60511 BC847B 7708 4822 130 60511 BC847B 9322 119 29685 DS1813R-5 7710 4822 130 60511 BC847B 7711 7712 4822 130 60511 BC847B 4822 130 60511 BC847B 7715 7716 4822 130 60511 BC847B 7717 5322 209 73179 74HCT74D

4822 130 60511 BC847B